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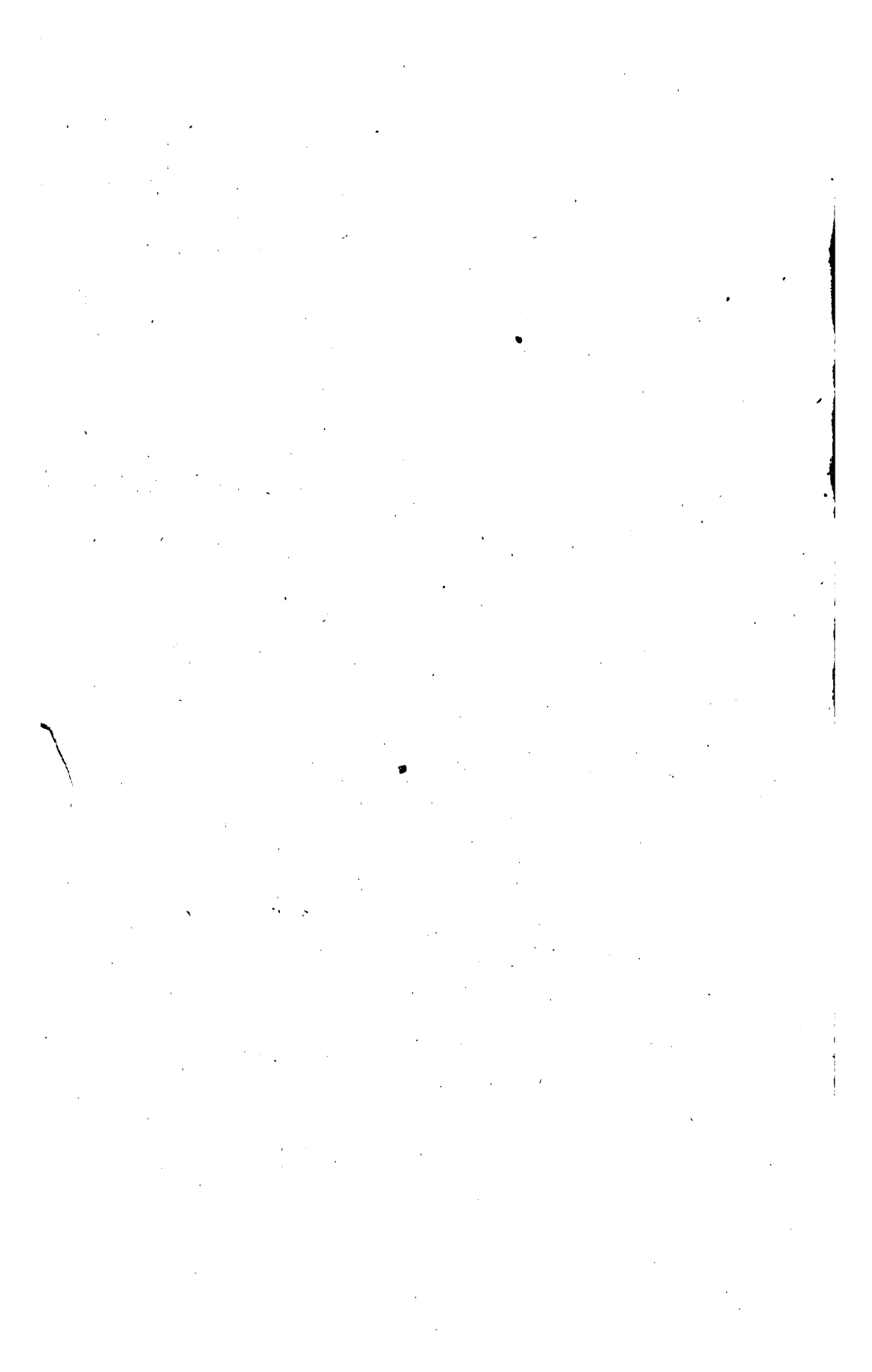
FROM

Water Commissioner,

Boston, Mass

6 May, 1901





FIFTH ANNUAL REPORT

OF THE

WATER COMMISSIONER

FOR THE

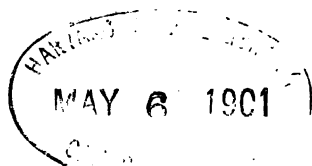
YEAR ENDING JAN. 31, 1900.

Printed for the Department.



BOSTON :
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1900.

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The Water Room



OFFICE OF THE WATER COMMISSIONER,
CITY HALL, BOSTON, February 1, 1900.

HON. THOMAS N. HART,

Mayor of Boston :

DEAR SIR,—I submit herewith the fifth annual report of the Water Commissioner for the year ending January 31, 1900.

I received my appointment as Water Commissioner on the 23d of December, and qualified on the 28th of December, 1899. As I did not assume the duties of the office until nearly the end of the financial year I shall not attempt to make any elaborate report on the operations of the department during the past year, but shall confine myself to a general statement of the financial condition of the department at the end of the year, as shown by the reports of the different heads of divisions, and shall make such suggestions as have occurred to me during my brief occupancy of the office.

It appears by the statements herewith annexed that the total receipts from all sources during the year were \$2,289,739.50 ; less refunded water rates, \$906.87 ; making the net receipts \$2,288,832.63. The total current expenditures of the Water Works from revenue for the year ending January 31, 1900, including interest on funded debt, sinking-fund requirements, 1898-99, and the Metropolitan water assessment, were \$1,992,581.91 ; leaving a balance, which was transferred to the general revenue of the city, of \$296,250.72.

In addition to this balance there is now due from other city departments for water about \$218,000, which amount, if added to the above balance, would show a net surplus of \$514,250.72

The cost of construction on February 1, 1899, was \$22,243,663.40, and on February 1, 1900, the cost of construction was \$22,689,783.75; showing an increase during the year of \$446,120.35. This amount, added to the item of expenditures from revenue during the year, makes the gross expenditures of the department \$2,438,702.26.

The net water debt on February 1, 1899, was \$7,634,154.10, and on February 1, 1900, the water debt was \$7,436,050.08; showing a decrease of \$198,104.02.

The amount of outstanding water loans on February 1, 1899, was \$17,121,273.98, and on February 1, 1900, was \$17,306,273.98; showing an increase during the year of \$185,000.

The Metropolitan water assessment during the year was \$411,861.54. This amount is likely to be increased from year to year for several years.

When I assumed the duties of Water Commissioner there were on the rolls of the department, employed and unemployed, 997 men. It was apparent that this number was largely in excess of the requirements of the department, and my first duty, which was very disagreeable and painful, was to reduce the force by discharging and suspending a large number of employees. I set about this difficult task with no personal knowledge of the qualifications of the men, but, as the reduction in numbers and expense was absolutely necessary, I gathered such information as I could from the superintendent and others, and discharged, as far as possible, those who were of least service to the department.

It is unfortunate that no scheme has ever been devised to keep men steadily employed throughout the year, but the work is of such a nature that it is impossible to employ to advantage as many men during the winter months as can be profitably employed during the summer season. It seems to me it would be better if a limited number of men, including those who have rendered long and faithful service, could be permanently employed throughout the year, so as not to be subjected by discharge to the hardships which thus necessarily fall upon men who have for many years had no other training or experience except that pertaining to the duties of the Water Department. It seems to me that there should be a permanent force, consisting of men who have rendered faithful service in the department for fifteen years or more, and who should not be discharged except for some fault of their own. So far as possible the men in this list, who have received injuries in the performance of their duties, or have been rendered incapable of performing hard work, should be placed on a "special roll" by themselves and given the

lighter work in the department, such as that of watchman, stableman, tallyman, water boy, light teaming, errand-work, etc. Much of this work has heretofore been done by vigorous and able-bodied men who are capable of doing more laborious work. It is my intention to select some of these older and infirm men and put them on a permanent or "special" roll, so that they may have the special privileges.

The property now in control of the Boston Water Department is as follows :

Brookline Reservoir, situated in Brookline, with a capacity of 115,000,000 gallons ; area of property, 1,447,576 square feet.

Fisher Hill Reservoir, Brookline, with a capacity of 15,000,000 gallons ; area of property, 459,670 square feet.

Parker Hill Reservoir, Roxbury, with a capacity of 7,200,000 gallons ; area of property, 197,614 square feet.

East Boston Reservoir, on Eagle Hill, East Boston, with a capacity of 6,000,000 gallons ; area of property, 220,875 square feet.

South Boston Reservoir lot, a remainder of 44,925 square feet.

West Roxbury pumping station, located on the corner of Washington street and Metropolitan avenue, West Roxbury, which contains two 10-inch by 7-inch by 12-inch Blake duplex pumps and two 42-inch diameter vertical fire-tube boilers.

High service tank on Mt. Bellevue, West Roxbury ; capacity, 122,000 gallons.

High service tank on Orient Heights ; capacity, 122,000 gallons ; area of property, 11,395.5 square feet.

Machine shop, stable, wharf and pipe yard on Albany street ; area of property, 98,100 square feet.

Workshop and stable, corner Medford and Tufts streets, Charlestown ; area of property, 13,050 square feet.

East Boston pumping station and a lot containing 114,840 square feet.

Aqueduct location, Chestnut Hill avenue, to high service pumping station, 299,593 square feet.

Pipe route from Beacon street to Boylston street, Brookline ; area of property, 232,880 square feet.

Lot of land on Marginal street, Chelsea, in which are laid the mains to East Boston ; area, 24,200 square feet.

Strip of land at Point Shirley, Winthrop, containing 7,725 square feet.

Strip of land from Parker Hill Reservoir to Fisher avenue, containing 2,887 square feet.

Strip of land between Heath and Lawn streets, Roxbury, containing 5,707.5 square feet.

The main pipes leading from the receiving reservoirs in Brookline and Brighton to the city and the distributing pipes laid in the City Proper, South Boston, East Boston, Roxbury, Dorchester, West Roxbury, Brighton, Charlestown, etc. Total length 706.2 miles, varying in size from 2 to 48 inches in diameter. Also the Cochituate aqueduct from Brookline Reservoir to Chestnut Hill pumping station.

The Brookline Reservoir will, during the coming year, be taken out of service on account of the going into commission of the low service pumping station at Chestnut Hill, which is being built by the Metropolitan Water Board. This property consists of 1,447,576 feet of land, which, together with 299,593 square feet of land over and adjacent to the aqueduct, should be sold, and the proceeds credited to the water account, reserving to the city the right to use the aqueduct, to lay water pipes in the aqueduct location, and to lay a pipe connecting it with the existing pipes in Boylston street, Brookline, below the gate-house.

Fisher Hill Reservoir, Brookline, with a capacity of 15,000,000 gallons, area of property 459,670 square feet, with the main pipes running from Chestnut Hill Reservoir to Fisher Hill, and in Fisher Hill avenue to Boylston street, should be taken by the Metropolitan Water Board, as there is at present, in reference to the management of this property, a divided responsibility between the City of Boston and the Metropolitan Water Board.

Parker Hill Reservoir, Roxbury, with a capacity of 7,200,000 gallons, area of property 197,614 square feet, is of little value to the city as an adjunct to its water service, and if it were not in existence nobody would advise its construction as a part of the system, its only value being that, in case of the failure of all of the main pipes leading in to Boston from Fisher Hill Reservoir, a few hours' supply could be drawn upon from Parker Hill.

The East Boston Reservoir on Eagle Hill, East Boston, with a capacity of 6,000,000 gallons, area of property 220,875 square feet, is at present out of service, its only value to the water service being that in case of break in the two mains leading across Chelsea bridge there would be a three days' supply stored in East Boston.

An arrangement has been made with the Metropolitan Water Board to lay a new 24-inch main across Chelsea creek to supply East Boston, which will replace the old main laid fifty years ago, and will furnish two lines of pipe across Chelsea creek. The City Engineer is of the opinion that another and independent line of pipes should be run to East Boston before the East Boston Reservoir is abandoned.

The city still owns a part of the South Boston Reservoir lot, a portion of which was taken by the School Committee for a high school building. As the remainder is of no value to the water-supply system I would recommend that it be disposed of.

The West Roxbury pumping station for supplying water to the Bellevue Hill service was leased to the Metropolitan Water Board on the thirtieth day of January, 1899, in accordance with the following agreement:

[COPY.]

The Metropolitan Water Board, consisting of Henry H. Sprague, Wilnot R. Evans, and Henry P. Walcott, and the City of Boston, by John R. Murphy, Water Commissioner of said City, agree as follows:

ARTICLE 1. Said Board shall occupy and use the land and buildings known as the West Roxbury pumping station, and the pumps, boilers, and other structures and appliances contained therein, said station being situate on the corner of Washington street and Metropolitan avenue, in that part of said Boston which was formerly West Roxbury, and known as the West Roxbury District; shall draw from the water pipes of said City now or hereafter laid or maintained in Washington street, opposite said pumping station, water; shall supply with such water the high service district of said West Roxbury, and may supply the districts of Hyde Park and Milton, and may use therefor in common with said City of Boston the stand-pipe on Mt. Bellevue, the pipes of said City of Boston between the pumping station and the stand-pipe, and the pipes of said City of Boston between the pumping station and the line between West Roxbury and Hyde Park.

ARTICLE 2. Said Board shall cause to be paid to the City of Boston for the right to occupy and use said building, pipes, pumps and other structures and appliances, the sum of nine hundred and twenty (920) dollars per annum from the date hereof, and if said Metropolitan Water Board shall use said building, pipes, pumps, and other structures and appliances, or any of them, and supply thereby the said towns of Hyde Park and Milton, said Board shall from and after the time it commences such supply pay to said City of Boston an additional sum, said sum to be the proportion of twelve hundred (1,200) dollars which the quantity pumped in said building for such supply bears to the full quantity pumped at the station, this proportion to be determined from time to time by the parties to this agreement.

ARTICLE 3. Said Board shall have the right to make such changes and additions to the building as said Board may deem necessary; shall keep the building in good repair; and on the termination of this agreement shall deliver up the premises mentioned in the first paragraph hereof in as good order, ordinary wear and tear excepted, as when taken into its possession.

ARTICLE 4. Said Board shall have the right to place in the

building such machinery as said Board may deem necessary, with the right of removing the same when the use of the station by the Board shall be abandoned; also the right to remove at any time and deliver to the City of Boston, at the pipe-yard on Albany street in said city, any portion of the machinery now in the station, and there shall be a reduction of nine (9) dollars per annum in the rental to be paid for every one hundred (100) dollars in value of such machinery so delivered, said value to be based on the original cost of the machinery, as estimated by the City Engineer of the City of Boston.

ARTICLE 5. This agreement shall continue for the term of ten years from the date hereof; *provided, however*, that it may be terminated and the use of the building, pumps and other structures and appliances abandoned by the Metropolitan Water Board whenever said Board shall by other means supply said district of West Roxbury with water.

Signed this thirtieth day of January, A.D. 1899.

HENRY H. SPRAGUE,

WILMOT R. EVANS,

HENRY P. WALCOTT,

Metropolitan Water Board.

CITY OF BOSTON,

By

JOHN R. MURPHY,

Water Commissioner of the City of Boston.

Since April 21, 1898, the water supply for the high service tank on Orient Heights has been pumped by the Metropolitan Water Board, and the service at the East Boston pumping station abandoned. The East Boston pumping station, with a lot of land containing 114,840 square feet, situated on Condor street and bordering on Chelsea creek, is of no further use as a part of the water supply and could be disposed of, reserving to the city the necessary rights for maintaining the main supply pipes to East Boston.

The Metropolitan Water Board proposes to take the water-pipes in Chelsea from the Boston side of the Chelsea north draw to and across Chelsea creek, with the lands owned by the city on Marginal street, Chelsea, in which are laid the mains to East Boston. In connection with this taking the Metropolitan Water Board will build a new siphon at the Chelsea north draw, and will lay a new 24-inch pipe across Chelsea creek.

The reports in detail of the work performed in the Income Division, the Distribution Division, and the Engineer's Department, will be found herewith annexed.

Respectfully,

AUGUSTUS P. MARTIN,

Water Commissioner.

WATER DEPARTMENT.

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The receipts and disbursements of the department for the year were as follows:

Total receipts of the Water Works, from all sources, for the year ending January 31, 1900:

Sales of water	\$2,159,774 07
Shutting off and letting on water and fees.	5,611 57
Elevator, fire and service pipes, sale of old materials, etc.	72,702 96
City's proportion of entrance fees of outside cities and towns into Metropolitan water system	51,650 90
Total receipts	\$2,289,739 50
Less refunded water rates	906 87
Net receipts	<u>\$2,288,832 63</u>

Total expenditures of the Water Works, from revenue, for the year ending January 31, 1900:

Current expenses	\$571,075 93
Interest on funded debt	799,820 44
Sinking-fund requirement, 1898-99	209,824 00
Metropolitan water assessment	411,861 54
Balance to general revenue account of city,	296,250 72
	<u>\$2,288,832 63</u>

COST OF CONSTRUCTION AND CONDITION OF THE WATER DEBT.

Cost of construction of Water Works to February 1, 1899	\$22,243,663 40
Cost of construction of Water Works to February 1, 1900	22,689,783 75
Increase during the year	<u>\$446,120 35</u>
Stock on hand February 1, 1899	\$137,755 55
Stock on hand February 1, 1900	134,323 44
Decrease during the year	<u>\$3,432 11</u>
The outstanding Water Loans February 1, 1899, were	\$17,121,273 98
The outstanding Water Loans February 1, 1900, were	17,306,273 98
Increase during the year	<u>\$185,000 00</u>
The Water Sinking-Fund February 1, 1899, was	\$9,487,119 88
The Water Sinking-Fund February 1, 1900, was	9,870,223 90
Increase during the year	<u>\$383,104 02</u>
Net Water Debt February 1, 1899	\$7,634,154 10
Net Water Debt February 1, 1900	7,436,050 08
Decrease during the year	<u>\$198,104 02</u>

The outstanding Water Loans on this date, February 1, 1900, are as follows :

Loans.		Date of	Amount.
per cent.	Currency,	Due Maturity.	
6	"	Jan., 1901 . . .	\$625,000 00
6	"	April, 1901 . . .	688,000 00
6	"	July, 1901 . . .	330,000 00
6	"	July, 1902 . . .	100,000 00
5	"	Sterling Loan, (£399,500)	
	"	Oct., 1902 . . .	1,947,273 98
6	"	April, 1903 . . .	905,000 00
6	"	Jan., 1904 . . .	8,000 00
6	"	April, 1904 . . .	38,000 00
6	"	Jan., 1905 . . .	161,000 00
6	"	April, 1905 . . .	142,700 00
6	"	July, 1905 . . .	44,000 00
6	"	Oct., 1905 . . .	6,000 00
5	"	Gold Loan, Oct., 1905 . . .	1,000,000 00
6	"	Currency, Jan., 1906 . . .	82,550 00
6	"	April, 1906 . . .	8,750 00
5	"	Gold Loan, April, 1906 . . .	552,000 00
5	"	Oct., 1906 . . .	2,000,000 00
6	"	Currency, Oct., 1906 . . .	4,000 00
6	"	Jan., 1907 . . .	8,000 00
6	"	April, 1907 . . .	5,000 00
6	"	July, 1907 . . .	1,000 00
5	"	Currency Loan, Oct., 1907 . . .	1,000 00
5	"	April, 1908 . . .	12,000 00
4	"	April, 1908 . . .	588,000 00
4	"	Loan, July, 1909 . . .	82,000 00
4 $\frac{1}{2}$	"	Oct., 1909 . . .	268,000 00
4	"	April, 1910 . . .	280,000 00
4	"	April, 1912 . . .	324,000 00
4	"	July, 1913 . . .	111,000 00
4	"	Oct., 1913 . . .	336,000 00
4	"	Jan., 1914 . . .	466,000 00
4	"	April, 1914 . . .	18,500 00
4	"	Oct., 1914 . . .	16,000 00
4	"	Jan., 1915 . . .	50,000 00
3 $\frac{1}{2}$	"	April, 1915 . . .	50,000 00
4	"	April, 1915 . . .	145,700 00
3 $\frac{1}{2}$	"	Oct., 1915 . . .	50,000 00
4	"	Oct., 1915 . . .	23,000 00
3 $\frac{1}{2}$	"	Jan., 1916 . . .	100,000 00
4	"	Jan., 1916 . . .	58,000 00
4	"	April, 1916 . . .	128,500 00
3 $\frac{1}{2}$	"	July, 1916 . . .	75,000 00
3 $\frac{1}{2}$	"	Oct., 1916 . . .	25,000 00
4	"	Oct., 1916 . . .	286,300 00
4	"	Jan., 1917 . . .	21,000 00
3	"	April, 1917 . . .	200,000 00
3 $\frac{1}{2}$	"	April, 1917 . . .	275,000 00
4	"	April, 1917 . . .	161,000 00
4	"	July, 1917 . . .	7,000 00
4	"	Oct., 1917 . . .	160,700 00
4	"	Jan., 1918 . . .	20,000 00
4	"	April, 1918 . . .	6,300 00
3 $\frac{1}{2}$	"	July, 1918 . . .	100,000 00
4	"	Oct., 1918 . . .	100,000 00

Carried forward,

\$13,201,273 98

WATER DEPARTMENT.

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Loans.		Date of	Amount.
<i>Brought forward,</i>		Maturity.	
4	per cent. Loan,	Due April, 1919	\$13,201,273 98
3½	" " "	" Oct., 1919	200,000 00
4	" " "	" Oct., 1919	145,000 00
3½	" " "	" Nov., 1919	300,000 00
3½	" " "	" Jan., 1920	130,000 00
4	" " "	" Oct., 1920	220,000 00
4	" " "	" April, 1921	384,000 00
4	" " "	" Oct., 1921	100,000 00
4	" " "	" Jan., 1922	162,500 00
4	" " "	" April, 1922	100,000 00
4	" " "	" Oct., 1922	75,000 00
4	" " "	" Oct., 1923	283,000 00
4	" " "	" Oct., 1924	576,275 00
3½	" " "	" Oct., 1927	644,225 00
3½	" " "	" Oct., 1928	150,000 00
3½	" " "	" July, 1929	200,000 00
			435,000 00
Total			<u>\$17,306,273 98</u>

SUMMARY.

3	per cent. Loans	\$200,000 00
3½	" " "	1,955,000 00
4	" " "	6,214,000 00
4½	" " "	268,000 00
5	" " Currency Loans	13,000 00
5	" " Gold "	3,552,000 08
5	" " Sterling "	1,947,273 90
6	" " Loans	3,157,000 00
Total		<u>\$17,306,273 98</u>

Cochituate Water Sinking-Fund Receipts.

[SINCE THE ESTABLISHMENT OF THE BOARD OF SINKING-FUND COMMISSIONERS IN 1871.]

YEAR.	From Tax Levy or City Income.	Interest on Investments.	Interest on Bank Deposits.	Water- Rates, etc.	Premiums on Loans.	Other Sources.	Totals.
1871. April 30, received from Committee on Re- duction of Debt.....	\$1,100,000 00	.	.....	.....	.....	.....	\$1,100,000 00
1871-72.....	14,325 00 Taxes, 9,375 00	\$61,000 00	\$349 67	.....	.....	.....	85,049 67
1872-73.....	9,000 00	70,137 50	1,017 80	.....	.....	.....	80,155 30
1873-74.....	30,090 00	76,799 60	2,072 65	.....	.....	.....	108,962 25
1874-75.....	75,973 28	82,842 25	2,121 13	.....	.....	.....	160,936 66
1875-76.....	65,554 00	85,470 00	3,617 55	.....	.....	\$386 00	155,027 55
1876-77.....	234,814 00	86,245 66	4,119 47	\$26,480 18	.....	915 46	352,574 77
1877-78.....	Taxes, 214,500 00	85,830 85	10,806 31	27,099 92	.....	.....	338,240 08
1878-79.....	Taxes, 207,456 00	93,264 49	6,181 26	177,195 91	.....	9,874 21	493,971 87
1879-80.....	.....	90,472 42	5,687 62	214,707 24	.....	4,411 64	315,278 92
1880-81.....	.....	86,460 00	167 32	195,668 90	.....	1,762 04	284,058 26
1881-82.....	96,546 35	2,767 90	193,840 36	494 08	293,648 69
1882-83.....	105,129 51	8,486 33	219,581 72	1,241 04	331,438 60

WATER DEPARTMENT.

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1883-84	138,120 90	2,268 22	141,362 12
1884-85	143,049 45	7,510 40	209,258 39	359,818 24
1885-86	156,094 01	5,804 31	120,129 12	442 27	283,069 71
1886-87	181,264 89	2,644 70	297,928 95	5,081 12	562,415 66
1887-88	199,883 90	4,178 16	221,620 11	.....	425,682 17
1888-89	213,048 22	8,958 69	256,013 57	\$11,552 50	489,572 98
1889-90	228,000 83	11,730 60	300,903 00	36,092 50	576,726 93
1890-91	229,509 17	29,763 94	242,675 22	36,530 00	538,478 33
1891-92	175,808 33	22,560 16	275,014 05	78,865 00	552,247 54
1892-93	260,506 20	30,148 34	240,435 00	16,413 50	547,503 04
1893-94	298,224 44	18,133 03	299,467 27	14,621 75	630,446 49
1894-95	312,332 05	18,524 22	297,518 29	9,894 12	638,268 68
1895-96	378,319 55	5,892 29	205,791 00	64,680 00	655,192 84
1896-97	403,840 02	5,225 08	194,740 00	616 50	604,421 60
1897-98	421,928 45	8,337 21	193,395 00	8,833 50	648,372 02
1898-99	417,142 02	5,806 85	193,395 00	8,016 00	624,359 87
1899-1900	383,662 97	7,632 45	209,824 00	2,148 90	633,104 02
	\$2,037,556 28	\$242,516 66	\$4,809,682 20	\$218,569 45	\$13,010,384 86
	\$5,562,034 03			\$140,026 24	

Cochituate Water Debt, Gross and Net,
At the Close of Each Fiscal Year.

Fiscal Year.	Gross Debt.	Sinking-Funds.	Net Debt.
1847-48	\$2,129,056 32 ¹	.....	\$2,129,056 32
1848-49	3,787,328 98	.....	3,787,328 98
1849-50	4,463,205 56	.....	4,463,205 56
1850-51	4,955,613 51	.....	4,955,613 51
1851-52	5,209,223 26	.....	5,209,223 26
1852-53	5,972,976 11	.....	5,972,976 11
1853-54	5,432,261 11	.....	5,432,261 11
1854-55	5,403,961 11	.....	5,403,961 11
1855-56	5,230,961 11	.....	5,230,961 11
1856-57	5,031,961 11	.....	5,031,961 11
1857-58	4,724,961 11	.....	4,724,961 11
1858-59	4,754,461 11	.....	4,754,461 11
1859-60	3,846,211 11	.....	3,846,211 11
1860-61	3,455,211 11	.....	3,455,211 11
1861-62	3,012,711 11	.....	3,012,711 11
1862-63	2,992,711 11	.....	2,992,711 11
1863-64	2,992,711 11	.....	2,992,711 11
1864-65	2,942,711 11	.....	2,942,711 11
1865-66	3,152,711 11	.....	3,152,711 11
1866-67	3,370,711 11	.....	3,370,711 11
1867-68	3,867,711 11	.....	3,867,711 11
1868-69	5,107,711 11	.....	5,107,711 11
1869-70	5,731,711 11	.....	5,731,711 11
1870-71	6,482,711 11	\$1,100,000 00	5,382,711 11
1871-72	6,812,711 11	1,185,049 67	5,627,661 44
1872-73	6,912,711 11	1,268,234 97	5,644,476 14
1873-74	7,863,711 11	1,372,958 62	6,490,757 49
1874-75	8,123,711 11	1,533,890 28	6,589,820 83
1875-76	9,735,711 11	1,560,917 83	8,174,793 28
1876-77	11,548,711 11	1,709,492 60	9,839,218 51
1877-78	11,545,273 98	2,043,764 73	9,501,509 25
1878-79	11,753,273 98	2,143,847 85	9,609,426 13
1879-80	11,697,273 98	1,771,692 92	9,925,581 06
1880-81	11,631,273 98	1,989,300 88	9,641,973 10
1881-82	11,631,273 98	2,281,857 89	9,349,416 09
1882-83	11,955,273 98	2,607,768 46	9,347,505 52
1883-84	12,882,273 98	2,746,505 58	10,135,768 40
1884-85	13,045,473 98	3,106,323 82	9,939,150 16
1885-86	13,491,473 98	3,385,201 26	10,106,272 72
1886-87	14,142,273 98	3,947,616 92	10,194,657 06
1887-88	14,741,273 98	4,373,304 09	10,367,969 89
1888-89	14,941,273 98	4,864,092 54	10,077,181 44
1889-90	15,696,273 98	5,440,819 47	10,255,454 51
1890-91	16,267,773 98	5,979,297 80	10,288,476 18
1891-92	16,423,773 98	6,471,545 34	9,952,228 64
1892-93	16,758,773 98	7,019,058 38	9,739,715 60
1893-94	17,055,273 98	7,649,504 87	9,405,769 11
1894-95	17,761,273 98	8,444,773 55	9,316,500 43
1895-96	18,261,273 98	9,099,966 39	9,161,307 59
1896-97	18,261,273 98	9,704,387 99	8,556,885 99
1897-98	17,911,273 98	9,852,760 01	8,058,513 97
1898-99	17,121,273 98	9,487,119 88	7,634,154 10
1899-1900	17,306,273 98	9,870,223 90	7,436,050 08

¹ No account taken of amounts borrowed temporarily from 1846 to 1862 and afterwards funded by the issue of the water bonds that figure in this statement.

WATER DEPARTMENT.

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DETAILED EXPENDITURES UNDER THE APPROPRIATIONS.

FEBRUARY DRAFT, 1899, TO FEBRUARY DRAFT, 1900.

Current Expenses (from Revenue).

Salaries :		
Commissioner	\$3,860 42	
Assistant Commissioner	2,925 00	
Secretary	2,925 00	
Employees	570,202 52	
		\$579,912 94
Water-pipes and castings		30,677 20
Horses, purchase of	\$850 00	
Feed and board	7,799 38	
Shoeing and veterinary services, etc.	3,123 12	
Wagons, etc., and repairs of same	2,543 56	
Harnesses, etc., and repairs of same	1,438 13	
		15,754 19
Travelling expenses and transportation of employees		14,812 97
Tools, machinery, iron, steel and other materials, for repairs and furnishing		14,438 18
Lead and lead pipe		13,766 40
Repairs of buildings, streets and other structures		7,834 22
Teaming and freights		7,670 28
Lumber		7,540 29
Damages		6,352 75
New meters	\$1,273 50	
Repairs of meters, including extra parts	4,964 26	
		6,237 76
Professional and expert services		6,280 79
Printing		5,830 11
Services and expenses of counsel in connection with settlement of claim against the State		4,623 90
Salt		3,922 83
Fuel		3,190 86
Blasting and excavating pipe trenches		2,982 23
Telephone service		2,331 88
Gravel and crushed stone		2,209 14
Report on property taken by the State		1,949 97
Stationery, postage, etc.		1,774 67
Board of injured man		782 17
Oils		624 60
Rents		558 50
Salt hay		513 84
Gas		512 45
Ice		429 55
Furniture		419 19
Taxes		381 15
Advertising		349 77
<i>Carried forward</i>		\$744,664 78

<i>Brought forward</i>	\$744,664 78
John Berry, balance due on contract April 4, 1895, for building filter beds, Marlboro'	300 00
Rubber clothing	186 61
Bricks	181 65
Cement and sand	162 70
Examination of accounts	150 00
Drain pipe	119 85
Lantern slides	100 00
Recording papers	78 50
Shrubs and plants	78 34
Premiums on bonds of employees	46 50
Commission as Notary Public	7 00
	<hr/>
	\$746,075 93
Less amount transferred to extension of mains, etc.	175,000 00
	<hr/>
	\$571,075 93
Refunded water rates	906 87
Sinking-fund payment	209,824 00
Interest on loans	799,820 44
Metropolitan water assessment	411,861 54
	<hr/>
	<u>\$1,993,488 78</u>

EXTENSION OF MAINS, ETC. (FROM LOANS).

Salaries and wages of employees	\$105,616 54
Water pipes and castings	109,313 22
Lead and lead pipe	15,751 65
Blasting and excavating pipe trenches	12,386 41
Laying water pipes	11,649 10
Tools, machinery, iron, steel and other materials, Lumber	6,573 51
	5,693 49
Travelling expenses and transportation of em- ployees	5,515 00
Teaming and freights	3,782 88
Repairs	3,485 61
Gravel and crushed stone	1,152 68
Stable account	758 20
Insulating fountains	716 00
Fuel	237 08
Oils	228 33
Drain pipe	157 95
Rubber clothing	110 60
Stone fountain	90 00
Bricks	60 00
Cement and sand	32 45
	<hr/>
	\$283,310 70
Transferred from current expenses	175,000 00
	<hr/>
	<u>\$458,310 70</u>

WATER DEPARTMENT.

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Contracts Made and Pending during Year Commencing February 1, 1899, and ending January 31, 1900.

Contracts marked thus () are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1899-1900.	Total.
1898.		<div>270 tons 36-inch pipe, Class A.....</div> <div>500 " 24-inch " " B.....</div> <div>150 " 24-inch " " B.....</div> <div>880 " 20-inch " " A.....</div> <div>100 " 20-inch " " B.....</div> <div>850 " 16-inch " " A.....</div> <div>410 " 12-inch " " A.....</div> <div>980 " 12-inch " " B.....</div> <div>230 " 10-inch " " B.....</div> <div>500 " 8-inch " " B.....</div> <div>750 " 6-inch " " B.....</div> <div>20 " 4-inch " " B.....</div> <div>5,600 tons pipe.....</div> <div>100 " Special Castings</div>	<div>@ \$16.75 per ton, 2,000 lbs.,</div> <div>} estimated total of contract, \$97,100</div> <div>@ \$33 per ton, 2,000 lbs.,</div>	\$83,073 75	\$13,318 32	\$96,997 07
" 18,	{ Seasons Foundry Co., Bristol, Conn..... }	{ Iron Castings for year ending March 15, 1899. (Contract No. 1.)..... }	{ 721,000 lbs.@1.50¢ cents per lb., } estimated total of contract, \$13,626.90	12,604 56	2,785 33	15,389 89
" 18,	{ Mechanics Iron Foun- dry Co., Boston, Mass.. }	{ Iron Castings for year ending March 15, 1899. (Contract No. 2.)..... }	{ 640,000 lbs.@1.50¢ cents per lb., } estimated total of contract, \$9,024	9,613 45	3,282 79	12,896 24
" 18,	Matthew E. Nawn	{ Teaming water pipes and materials for year ending March 15, 1899..... }	{ 34 cents per ton, short haul. 74 cents per ton, long haul..... }	1,528 47	1,328 69	2,857 16
" 30,	{ John H. McCafferty & Co. }	{ Composition Castings for year ending March 15, 1899. No. 1, 9,500 lbs. estimated No. 2, 33,000 " " No. 3, 5,500 " " }	{ No. 1@174 cents per lb.= \$1,568 75 No. 2@16 cents per lb.= 5,280 00 No. 3@13 cents per lb.= 715 00 Total .....\$7,563 75 }	5,300 45	2,636 51	7,946 26

Contracts Made and Pending during Year Commencing February 1, 1899, and ending January 31, 1900. — Continued.

Contracts marked thus (*) are completed.

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1899-1900.	Total.
1898. *Apr. 18, modified May 9,	{ Warren Foundry and Machine Company Phillipsburg, N. J.....	{ (870 tons 12-inch B Water-Pipe. Contract of April 18, 1898, modified, viz.: 717 tons 12-inch B..... 250 tons 16-inch B..... (12-inch pipe to be delivered at Atlantic, Mass., Station.) 70 tons additional 16-inch B pipe, or- dered July 26, 1898.	@ \$17.80 per ton, 2,000 lbs., @ \$17 per ton, 2,000 lbs., @ \$17 per ton, 2,000 lbs., Total of contract as modified, \$16,869.20 1,100.00 Total, \$18,069.20	\$15,606 80	\$2,341 77	18,088 57
*Oct. 10,	H. P. Nawn.....	{ Rock excavation from water-pipe trench, Columbia road, between Quincy and Dudley streets, Dorchester	@ \$2.00 per cubic yard.....	.....	1,388 60	1,388 60
* " 31,	Patrick Cushing	Blasting, Angell street, West Roxbury	@ \$4.00 " " .....	.....	72 00	72 00
*Nov. 28,	H. P. Nawn.....	{ Blasting, Geneva avenue, Dorchester, be- tween Columbia road and Blue Hill ave.,	@ \$2.00 " " .....	.....	1,923 60	1,923 60
* " 29,	O'Rourke & Nelson.....	{ Removing 1,700 linear feet 12-inch pipe from Columbia road, and delivering same at Squantum, Mass..... Laying above pipe (1,700 feet) and 4,400 feet already delivered; total, 6,100 feet	@ 43 cents per linear foot } @ 55 " " " }	.....	4,538 16	4,538 16
*Dec. 12,	Donovan & Co.....	{ Stone and brick work for foundations for ice-house, East Boston, viz.: Stone in place, dry	\$3.85 per perch \$15.25 per M.	.....	887 45	887 45
* " 14,	Daniel E. Lynch.....	Blasting, Draper street, Dorchester.....	\$3.50 per cubic yard.....	252 35	252 35

WATER DEPARTMENT.

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*Dec. 17,	John O'Brien	Blasting, Rockwell street, Dorchester	\$2.47 per cubic yard.		†
* " 20,	Thomas Burke	" Potosi street, Dorchester	\$3.74 per cubic yard	126 41	126 41
1899.		{ Laying about 1,600 feet 36-inch water-pipe in Gendron avenue between Columbia road and Washington street, Dorchester. For earth excavated and refilled..... For refilling where rock has been exca- vated.....	@ 7½ cents per linear foot @ \$1.00 per cubic yard	2,617 72	2,617 72
Jan. 4,	H. P. Nawn		@ 25 cents per cubic yard		
1899.		Blasting, Stanley street, Dorchester	@ \$4.00 per cubic yard	\$235 35	235 35
*Jan. 24,	Thomas Burke	{ 550 tons 30-inch pipe			
" 25,	{ Warren Foundry and Machine Company, Phillipsburg, N. J.....	{ 125 " 30-inch "	@ \$16.70 per ton	79,498 00	79,498 00
		{ 975 " 16-inch "	2,000 lbs.,		
		{ 2,300 " 12-inch "	estimated total of contract, \$93,561.50		
		{ 50 " 10-inch "			
		{ 875 " 8-inch "			
		{ 500 " 6-inch "			
		{ 20 " 4-inch "			
		{ 6,395 " pipe	@ \$38.00 per ton 2,000 lbs.		
		{ 105 " Special Castings.....			
* " 26,	O'Rourke & Nelson	{ Laying about 3,000 feet 16-inch pipe in Co- lumbia road, South Boston	@ \$1.05 per linear foot	3,171 77	3,171 77
*Feb. 24,	{ Camden Iron Works, Philadelphia, Pa.....	{ 120 tons 24-inch flexible joint pipe.....	{ @ \$27.60 per ton, 2,000 lbs.,	4,573 37	4,573 37
		{ 41 " 12-inch " "	{ estimated total of contract, \$4,525.60		
* " 28,	Daniel E. Lynch	Blasting Bellevue street, Dorchester.....	@ \$3.50 per cubic yard.....	157 85	157 85
Mar. 14,	{ Sessions Foundry Com- pany, Bristol, Conn..	{ Iron castings for year ending March 15, 1900.....	{ 1,125,000 lbs. No. 1 @ 1 1/16 cents per lb., 225,000 lbs. No. 2 @ 1 1/16 cents per lb.,	19,996 64	19,996 64

† Contract subsequently taken from John O'Brien and work performed by John Byrne, for \$159.23.

Contracts Made and Pending during Year Commencing February 1, 1899, and ending January 31, 1900.—Continued.
Contracts marked thus () are completed.*

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous Year.	Year 1899-1900.	Total.
1899. Mar. 20,	Owen Nawn & Co.....	{ Teaming water-pipes and materials for year ending March 15, 1900.....	{ 38 cents per ton, 2,240 lbs., short haul, 38 cents per ton, 2,240 lbs., long haul,	.....	\$2,623 14	\$2,623 14
" 31,	William Curley.....	{ Composition castings for year ending March 15, 1900.....	{ No. 1, 12,000 lbs., estimated 19½¢ per lb., No. 2, 40,000 lbs., estimated 17½¢ per lb., No. 3, 5,000 lbs., estimated 18½¢ per lb., @ \$2.98 per cubic yard..... @ 3½¢ cents per lb., f.o.b., Boston, @ \$3.35 per cubic yard..... @ \$3.25 " " "..... @ 4 ⁴⁷ / ₁₀₀ cents per lb..... 62½ " " "..... @ 4 ¹⁰⁰ / ₁₀₀ " " "..... @ \$3.75 per cubic yard.....	.....	6,472 34	6,472 34
*Apr. 18,	Thomas Burke.....	Blasting Hamilton street, Dorchester.....	@ \$2.98 per cubic yard.....	.....	276 25	276 25
* " 21,	R. D. Wood & Co.	8 30-inch by 20-inch Y branches.....	@ 3½¢ cents per lb., f.o.b., Boston,	.....	635 64	635 64
* " 24,	Daniel E. Lynch.....	{ Blasting Columbia Road, between Bird and Hancock streets, Dorchester.....	@ \$3.35 per cubic yard.....	.....	429 47	429 47
* " 26,	Thomas Burke.....	Blasting Hamilton street, Dorchester.....	@ \$3.25 " " ".....	.....	347 75	347 75
*May 11,	Richards & Co.....	60 tons pig lead.....	@ 4 ⁴⁷ / ₁₀₀ cents per lb.....	.....	5,374 80	5,374 80
* " 11,	Chadwick Lead Works,	39 " lead pipe.....	62½ " " ".....	.....	3,672 78	3,672 78
* " 12,	Thomas Burke.....	Blasting Bellevue street, Dorchester.....	@ \$3.75 per cubic yard.....	63 75	63 75

WATER DEPARTMENT.

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*May 12,	Thomas Burke.....	Blasting Mattapan street, Dorchester.....	@ \$3.48 per cubic yard.....	\$84 91	\$84 91
* " 12,	Daniel E. Lynch.....	" street off Foster street, Brighton,	@ \$4.50 " "	121 05	121 05
* " 17,	Coffin Valve Company.	20 16-inch Water Gates.....	@ \$82 each	1,640 00	1,640 00
*June 3,	James McDonald.....	Blasting McCarthy place, Roxbury.....	@ \$4.25 per cubic yard.....	153 00	153 00
* " 5,	Thomas Burke.....	" Fessenden street, Dorchester...	@ \$2.95 " "	185 85	185 85
* " 7,	"	" Millet street, Dorchester.....	@ \$3.25 " "	123 50	123 50
* " 16,	Daniel E. Lynch.....	{ Excavating pipe trench, Orkney road, } Brighton.....	@ \$4 per lin. foot.....	36 00	36 00
* " 23,	James McDonald.....	{ Blasting Commonwealth avenue, between } Washington and Warren streets, Brigh- } ton.....	@ \$2.60 per cubic yard.....	301 34	301 34
*July 1,	Daniel E. Lynch.....	Blasting Calumet and Kenny streets, Rox.,	@ \$3 " "	56 80	56 80
* July 7,	J. H. Ferguson.....	Blasting Hollander street, Roxbury.....	@ \$2.50 per cubic yard.....	382 00	382 00
* " 11,	Thomas Burke.....	" Delle avenue, "	@ \$4 " "	63 60	63 60
* " 20,	Daniel E. Lynch.....	{ Blasting and excavating Orkney road, } Brighton.....	@ \$4 " "	374 40	374 40
* " 26,	James McDonald.....	Blasting Bowdoin square, Dorchester.....	@ \$4.10 " "	59 45	59 45
*Aug. 5,	Thomas Burke.....	{ Blasting Commonwealth avenue, between } Colonial road and Washington street, } Brighton.....	@ \$2.40 " "	404 64	404 64
* " 5,	James A. King.....	Blasting Wyoming street, Roxbury.....	@ \$4 " "	289 60	289 60
" 15,	Edw'd Kendall & Sons,	{ Furnishing and erecting 4 20-inch steel } water-pipes for Tremont-street bridge at } Castle street.....	@ \$650 each.....	.....	.....
* " 21,	Daniel E. Lynch.....	Blasting Lorraine street, Dorchester.....	@ \$5 per cubic yard	79 00	79 00
*Sept. 11,	Richards & Co.....	60 tons pig lead	@ $4\frac{7}{10}$ cents per lb.....	5,680 00	5,680 00

Contracts Made and Pending during Year Commencing February 1, 1899, and ending January 31, 1900.—Concluded.

Contracts marked thus (*) are completed.

DATE.	CONTRACTORS.	WORK.	AMOUNT.	PAID ON CONTRACT.		
				Previous year.	Year 1899-1900.	Total.
1899.						
*Sept. 28,	James McDonald.....	{ Blasting Commonwealth avenue, between Warren street and Summit avenue, Brighton	@ \$1.85 per cubic yard.....	.....	\$519 85	\$519 85
* " 30,	Thomas Burke.....	{ Blasting Commonwealth avenue, between Washington street and Sutherland road, Brighton	@ \$2.28 " " .....	.....	1,072 74	1,072 74
*Oct. 10,	O'Rourke & Nelson....	Laying 12-inch water-pipes, Moon Island..	@ 95 cents per lin. foot.....	.....	1,321 45	1,321 45
* " 16,	Thomas Burke.	Blasting Gayland avenue, Roxbury.....	@ \$7.00 per cubic yard.....	.....	178 50	178 50
* " 18,	Jas. McLaughlin & Son,	" Florida street, Dorchester	@ \$3.95 " " .....	.....	83 35	83 35
*Nov. 6,	Robert L. Barrett.....	" Brunswick street, "	@ \$2.50 " " .....	.....	45 25	45 25
* " 18,	Thomas Burke.....	" Oakland avenue, Brighton.....	@ \$7.50 " " .....	.....	61 50	61 50
* " 28,	" "	" Everton street, Dorchester.....	@ \$3.25 " " .....	.....	.....	.....
Dec. 5,	James McDonald.....	" Harrishof street, Roxbury.....	@ \$2.75 " " .....	.....	.....	.....
" 12,	Daniel E. Lynch.....	{ Blasting Commonwealth avenue at Chis- wick road, Brighton.....	@ \$4 " " .....	.....	.....	.....
" 20,	James McDonald.....	Blasting Montebello road, West Roxbury..	@ \$2.20 " " .....	.....	.....	.....
" 22,	Jas. McLaughlin & Son,	" West Selden street, Dorchester...	@ \$3.25 " " .....	.....	.....	.....
" 23,	" " "	" Maxwell street, "	@ \$3.25 " " .....	.....	.....	.....

APPENDIX A.

REPORT OF INCOME DIVISION.

CITY HALL, BOSTON, February 1, 1900.

HON. A. P. MARTIN,

Water Commissioner :

SIR, — Herewith please find annual report of the Income Division, Water Department. The reports of the Meter Service and the Deacon Service cover the financial year ending January 31, 1900; the balance of the report is rendered for the calendar year ending December 31, 1899, it being impracticable, owing to the nature of the accounts, to render an entire report for the financial year.

Respectfully submitted,

J. H. CALDWELL,

General Superintendent Income Division.

Table I.

Statement of Water Rates, January 1, 1900.

Account of Year.	Amount assessed.	Amount abated.	Amount collected.	Balance outstanding.
1894.....	\$2,163,625 70	\$51,539 32	\$2,112,006 01	\$80 37
1895.....	2,266,519 08	54,923 18	2,211,008 55	587 35
1896.....	2,568,240 70	82,049 99	2,473,047 60	13,143 11
1897.....	2,630,407 87	51,899 37	2,576,544 28	1,964 22
1898.....	2,342,680 36	45,799 89	2,107,046 95	189,833 52
1899.....	2,413,641 49	25,106 35	1,926,849 23	461,685 91

Above amounts for years 1894, 1895, 1896 and 1897 include both Cochituate and Mystic supply accounts. The contracts to supply Chelsea, Somerville and Everett with Mystic water were abrogated by the Metropolitan Water Act on January 1, 1898.

Table II.*Showing Number of classified Water Takers during 1899.*

	Number.
By annual rates.....	100,792
By meter rates.....	4,773
Total.....	105,565

Table III.*Showing Kind and Number of Fixtures in use January 31, 1900.*

	Number.
Bath-tubs.....	87,772
Bowls.....	104,218
Foot-tubs.....	351
Sinks.....	174,707
Taps.....	24,727
Urinals, automatic.....	5,072
" otherwise.....	442
Wash-tubs.....	110,911
Water-closets.....	156,268
Total fixtures.....	644,468

Table IV.*Water by Annual Rates.*

STYLE OF PREMISES.	Number.	Amounts assessed.
Armories.....	4	\$104 50
Bakeries.....	273	3,688 59
Bath-houses.....	6	181 00
Building purposes.....	1,225	15,849 26
Cemeteries.....	12	100 00
Churches.....	237	2,725 16
<i>(Continued — page 21.)</i>		

Table IV.—*Concluded.*

STYLE OF PREMISES.	Number.	Amounts assessed.
Circus	1	\$62 40
City of Somerville	1	2 50
Clubs	206	2,951 92
Depots	50	1,140 13
Disinfectant	1	25 00
Dwelling-houses	54,006	791,614 58
Fire Department:		
Chemical engines	11	165 00
Combination wagons	7	105 00
Hydrants and reservoirs	7,186	107,790 00
Ladder companies	17	255 00
Steam fire-engines	43	1,075 00
Water towers	1	15 00
Fountains	38	612 00
Freight-houses	21	296 00
Greenhouses	60	1,128 00
Gymnasiums	2	546 50
Halls	146	2,249 51
Hand-hose	9,194	45,970 00
Hospitals and asylums	55	3,472 17
Hotels	3	424 50
Laboratories	1	7 50
Laundries	581	11,019 91
Libraries and museums	10	201 00
Manufactories	21	493 67
Model-houses	10,421	217,426 12
Morgue	1	10 00
Motors	8	66 67
Offal stations	1	175 00
Offices	2,084	18,323 39
Photographers	44	920 75
Police stations	9	146 33
Public buildings	8	332 50
Public institutions	7	10,247 00
Public park	1	17 00
Puddling trenches	58	2,998 30
Restaurants and lunch-rooms	497	9,502 12
Saloons	550	20,777 29
Schools	127	2,030 00
Sewers, building	1	2,239 89
Sewers, flushing	2	572 68
Shops	3,260	28,500 05
Shipping	16	771 91
Stables	3,898	27,577 17
Steam-engines	153	4,130 65
Steam-rollers	9	225 00
Steam-crushers	5	125 00
Stores	6,163	65,769 66
Theatres	3	37 25
Urinals, public	15	425 00
Ward-rooms	9	90 00
Washing carts	3	100 00
Watering streets	20	68,508 04
Totals	100,792	\$1,475,815 57

Table V.

Water by Meter Rates.

STYLE OF PREMISES.	Number.	Quantity of Water Consumed, Cubic Feet.	Amounts Assessed.
Bakeries.....	20	1,642,000	\$2,109 50
Bath-houses.....	17	4,810,000	5,933 00
Boarding-houses.....	69	2,263,000	3,160 10
Bottling.....	57	5,943,000	7,677 30
Breweries.....	30	28,854,000	36,055 90
Cemeteries.....	3	280,000	368 20
Chemicals.....	11	2,153,000	2,725 40
Club-houses.....	28	5,173,000	6,582 95
Chutes.....	1	622,000	770 40
Distilleries.....	7	1,023,000	1,294 80
Electrical companies.....	17	27,783,000	31,572 20
Elevators and motors.....	498	45,834,000	58,001 52
Factories.....	242	44,109,000	52,541 90
Fish-houses.....	24	1,444,000	1,926 35
Gasworks.....	13	11,370,000	13,889 20
Greenhouses.....	12	1,012,000	1,343 40
Halls.....	15	2,216,000	2,762 80
Hospitals.....	17	6,498,000	8,110 70
Hotels.....	145	59,090,000	73,322 40
Iron-works.....	40	7,911,000	10,153 00
Laundries.....	22	9,287,000	11,406 30
Markets.....	7	289,000	440 75
Mills and engines.....	76	18,143,000	23,054 35
Model-houses.....	1,080	71,878,000	97,438 80
Navy Yard and barracks.....	4	7,867,000	8,173 11
Offices, stores and shops.....	1,270	119,499,000	156,531 22
Oil-works.....	8	839,000	1,086 20
Parks.....	13	1,691,000	2,145 60
Police stations.....	17	1,507,000	2,043 10
Public institutions.....	32	25,518,000	30,263 00
Saloons and restaurants.....	325	25,260,000	33,181 55
Schools.....	148	15,300,000	20,181 45
Slaughtering-houses.....	3	1,718,000	2,133 40
Stables.....	321	14,885,000	20,324 50
Steam and street R.R. companies.....	64	136,599,000	137,271 06
Stone-works.....	10	1,049,000	1,397 80
Sugar refineries.....	1	29,128,000	24,926 40
Tanneries.....	4	395,000	536 00
Theatres.....	14	2,959,000	3,778 40
Warehouses.....	12	4,027,000	5,188 10
Wharves and shipping.....	76	29,303,000	36,054 29
Totals.....	4,773	777,171,000	\$937,861 40

Table VI.*Number and Amounts of Abatements Allowed during the Year 1899.*

ON ACCOUNT OF ASSESSMENTS FOR YEAR.	COCHITUATE.		MYSTIC.	
	Boston.		Chelsea.	
	Number.	Amount.	Number.	Amount.
1899.....	3,401	\$25,106 35	.....	.....
1898.....	2,260	23,697 25	.....	.....
1897.....	14	160 39	2	\$26 60
1896.....	2	72 49	.....	.....
Totals.....	5,677	\$49,036 48	2	\$26 60

The abatements allowed on account of 1899 assessments, amounting to \$25,106.35, were due to changes in occupancy of premises, changes in ownership, vacancies, errors in valuations and assessments, inaccuracy of meters as proved by tests, underground leaks for which the owner could not be held entirely responsible, and for other reasons, which, in the judgment of the General Superintendent, entitled the water-taker to consideration.

The abatements on account of 1896, 1897 and 1898, were due to bills uncollectible, changes of ownership, failures, shut-off for non-payment and cleaning up old accounts.

Table VII.*New Elevator, Motor, Fire and Service Pipes.*

Elevator pipes.....	21
Motor pipes.....	7
Fire pipes.....	45
Service pipes.....	2,005
Total	2,078

Table VIII.
Turning Water Off and On.

For repairs of mains.....	1,767
“ “ “ services.....	4,084
“ non-payment of water bills.....	2,647
“ waste.....	40
Turned on first time.....	1,829
Vacancies.....	4,257
Total.....	14,634

Table IX.
Off and On Receipts.

Received for turning water off and on for repairs, deposited with City Collector.....	\$1,922
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Table X.
**ELEVATOR, MOTOR AND FIRE PIPE SERVICE, FOR YEAR ENDING
DECEMBER 31, 1899.**

Elevators.

Total number of elevators under supervision of Water Department, December 31, 1899	557
During year :	
New elevators inspected, measured and accepted .	21
Elevators changed to electricity, steam or tank system	11
Elevators discontinued, owing to buildings demol- ished, premises vacated or otherwise	18
Elevator cylinders and mechanism repaired	24
Elevator cylinders remeasured and clocks compared .	31
Elevator clocks readjusted to accuracy	6
Elevator clocks and cords repaired	59

Motors.

Total number of hydraulic motors in service	115
New motors applied to service during 1899	5
Motor clocks repaired	6
Old hydraulic motors changed or repaired	7
Motors discontinued	3

WATER DEPARTMENT.

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By-pass Valves.

By-pass valves at meters inspected	13
“ “ resealed; number of times	20

Fire Pipes.

Buildings equipped with fire-pipe service	424
Visits made to premises	1,775
Fire outlet valves inspected	3,565
Fire outlet valves sealed and resealed	2,801
Prohibitory fixtures removed from piping	41
Hydrants inspected	126
Hydrants resealed	99

Table XI.

Statement of Meters for Year Ending January 31, 1900.

Meters belonging to department Jan. 31, 1899	5,278
Purchased during year	26
	<hr/>
	5,304
Condemned during year	96
Lost in service	3
Lost, not previously reported	1
Sold (exchanged for new)	14
	<hr/>
	114
	<hr/>
Meters belonging to department Jan. 31, 1900	<u>5,190</u>

Table XII.

Distribution of Meters January 31, 1900.

In service	4,618
At department shop	556
At factory	13
Loaned, for experimental purposes	3
	<hr/>
	<u>5,190</u>

Table XIII.

General Statement of Work Performed on Meters during Year ending January 31, 1900.

	Meters.	Boxes.
Applied.....	233	51
Discontinued.....	1,247	
Changed	357	

Table XIII.—Concluded.

	Meters.	Boxes.
Changed location.....	22	
Tested	8,080	
Repaired at shop	1,086	
Repaired at factory	312	
Repaired in service.....	502	205
Abandoned.....		15
Examined	361	
Hayed		1,275
Lost in service	4	
Sold (exchanged for new).....	14	
Condemned.....	96	
Loaned (for experimental purposes).....	3	
Meters at factory.....	13	
" in service.....	4,618	
" purchased.....	26	
" at department shop	556	
Private meters applied.....	5	
" " in service	76	

Table XIV.*Meters Condemned.*

	DIAMETER IN INCHES.					Totals.
	2	1	$\frac{3}{4}$	$\frac{1}{2}$	$\frac{1}{4}$	
Worthington.....	1	12	33	21		67
B. W. W.			10			10
Metropolitan.....			2			2
Undine.....			1	4		5
Desper		1		2		3
Tremont.....		1				1
Spooner.....				1		1
Balance Valve.....				1		1
Equitable			1			1
Beck & Co.....				1		1
Niagara					1	1
Proportional.....			1			1
Smith.....		1				1
Star				1		1
Totals	1	15	48	31	1	96

Table XV.
Meters Applied.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington.....		1	4	11	4	10	8		38
Crown	1	2	6	7	22	7	25	64	134
Hersey			1	1	7	4	9		22
Metropolitan.....					5	12	16		33
Empire.....					2	1			3
Lambert							1		1
Gem		1							1
B. W. W.....							1		1
Totals	1	4	11	19	40	34	60	64	233

Table XVI.
Private Meters Applied to Department Service.

	DIAMETER IN INCHES.			Totals.
	3	1½	¾	
Crown		3	1	4
Hersey	1			1
Totals	1	3	1	5

Table XVII.
Meters Discontinued.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington		3	2	16	2	25	42	1	91
Crown	1	4	6	7	7	6	39	105	175
Hersey				2	7	5	22		36
Metropolitan.....					3	6	41		50
Empire.....					1				1
B. W. W.....							2		2
Lambert						1	1		2
Gem.....		1							1
Totals	1	8	8	25	20	43	147	106	358

Table XVIII.*Meters Purchased.*

	DIAMETER IN INCHES.						Totals.
	6	8	1½	1	¾	½	
Crown	1		8	1			5
Lambert.....						2	2
Empire			7	3			10
Nash.....			1				1
Disc		8	4				7
Rogers					1		1
Totals	1	3	15	4	1	2	26

Table XIX.*Meters Sold.*

	DIAMETER IN INCHES.		Totals.
	¾	½	
Crown	1	11	12
Thomson.....		2	2
Totals	1	13	14

Table XX.*Meters Repaired at Factory.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington.....		2	8	13	3	29	4		54
Crown.....	1		1	7	1	10	20	125	165
Hersey				1	5	7	21	4	38
Metropolitan.....						4	46		50
Gem.....		1							1
Totals	1	3	4	21	9	50	91	129	308

Table XXI.*Meters Repaired in Service.*

CAUSE OF REPAIRS.	Totals.	CAUSE OF REPAIRS.	Totals.
Cap broken.....	65	<i>Brought forward</i>	400
Glass broken.....	99	Resealed.....	2
Spindle broken.....	13	Clock defaced.....	12
Clock broken.....	13	Ratchet broken.....	11
Clock detached.....	1	Not registering, cause unknown	11
Check valve.....	7	No force.....	2
Hands stuck.....	4	Hands loose.....	2
Hands broken.....	1	Gear loose.....	4
Spindle leak.....	110	Spindle stuck.....	5
Stopcock leak.....	1	Gear broken.....	5
Leak at valve.....	1	Gear stuck.....	1
Leak at connection.....	73	Set backwards.....	1
Leak at body.....	2	Pawl detached.....	1
Pawl stuck.....	1	Raised meter.....	1
Extension clock applied.....	9	Style of clock changed.....	44
<i>Carried forward</i>	400	<i>Total</i>	502

Table XXII.*Meters Changed.*

CAUSE.	Number.	CAUSE.	Number.
For test.....	713	<i>Brought forward</i>	1,103
Valve stuck.....	1	Register bar broken.....	2
Not registering, cause unknown	91	Clock defaced.....	4
Stoppage.....	18	Pawl detached.....	2
Rust.....	40	Gears did not mesh.....	12
Dirt.....	16	No force.....	44
Heat.....	20	Solder in meter.....	11
Frost.....	16	Spindle stuck.....	1
Piston broken.....	6	Gear stuck.....	5
Piston stuck.....	11	Gear loose.....	2
Intermediate broken.....	38	Enlargements.....	38
Intermediate worn.....	43	Ratchet broken.....	5
Leak at body.....	13	Clock detached.....	2
Leak at connection.....	8	Relocations.....	4
Leak at spindle.....	12	Fish.....	3
Spindle broken.....	14	Intermittent.....	2
Cap broken.....	6	Set backwards.....	1
Clock broken.....	26	Gear detached.....	3
Lever broken.....	10	Ratchet detached.....	1
Train broken.....	1	Piston rod short.....	2
<i>Carried forward</i>	1,103	<i>Total</i>	1,247

Table XXIII.*Meters in Service, January 31, 1900.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington.....	2	16	31	131	119	553	356	.....	1,210
Crown.....	8	41	84	83	165	378	437	1,251	2,437
Hersey.....		6	12	23	41	80	165	20	347
Metropolitan.....				3	20	107	408	3	536
Thomson.....							2	6	8
B. W. W.....							27		27
Gem.....	1	4							5
Champion.....							1		1
Torrent.....	1								1
Lambert.....				1				6	15
Empire.....					6	2	2		13
Nash.....					1	5	2	2	7
Disc.....			3		4	2			9
Trident.....						1			1
Ball & Fitts.....			1						1
Totals.....	12	67	101	241	359	1,130	1,420	1,288	4,618

Table XXIV.*Private Meters in Department Service, January 31, 1900.*

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington.....			1	4	2	6	1	5	19
Crown.....	1	3	2	4	15	5	2	13	45
Hersey.....			2	1	3				6
B. W. W.....							1		1
Thomson.....					1				1
Ball & Fitts.....				1					1
Gem.....	2								2
Lambert.....				1					1
Totals.....	3	3	5	11	21	11	4	18	76

Table XXV.*Meters at Factory for Repairs, January 31, 1900.*

	DIAMETER IN INCHES.		Totals
	4	½	
Worthington.....	2	.....	2
Crown.....	.....	11	11
Totals.....	2	11	13

Table XXVI.

Meters at Department Shop, January 31, 1900.

	DIAMETER IN INCHES.								Totals.
	6	4	3	2	1½	1	¾	½	
Worthington		5	2	27	8	61	49	2	154
Crown		4	1	4	1	1	14	68	93
Hersey			1	4	1	1	20	..	27
Metropolitan					1	25	232	1	259
Empire					1				1
Lambert							1	..	1
Gem	1	1	4	2					8
B. W. W.							4		4
Rogers							1		1
Ball & Flitts				1			4	2	7
Trident						1			1
Totals	1	10	8	33	12	89	325	73	556

DEACON SERVICE.

The Deacon meters were placed in operation for the year on April 3, 1899, and their work ceased on December 7, 1899. During this period 62 meters were operated, from which 706 diagrams were obtained, being 356 readings, of 24 hours each, and 350 night tests, giving the results of readings and tests of 149 sections. These diagrams were delivered to the City Engineer for compilation.

The Deacon meters in Charlestown could not be operated on account of the high service having so many dead ends that the meter work would interfere with the supply in streets surrounding the sections.

The Adams-street meters, Nos. 1 and 2, could not be operated, on account of work being done on mains in the district.

The Columbia-street meter was abandoned, and was reset at Compton and Castle streets.

The meters were not in operation for three days during the season, the men having been detailed to enumerate the persons using water from the cold-water fountains.

Tests for electrical decomposition of water pipes were made on 91 days, during May, August, September, October, November and December.

The work of the inspectors during the year was confined to detecting waste in sections of the city where the Deacon meters had located excessive waste of water, with the exception of the months of February and March, 1899, when the work was in sections not covered by Deacon meters.

The following tables set forth the work of the Inspectors for the year:

Table XXVII.

Waste Inspection.

	NUMBER.
Houses inspected.....	52,425
Waste reports made.....	13,440
Re-examinations.....	17,741

Table XXVIII.

Waste Re-examination Previous to Repairs.

	NUMBER.
Not repaired, from 1898 inspection	354
Re-examined once and repaired	11,283
" twice "	5,275
" three times and repaired	709
" four times "	172

Table XXIX.

Defective Fixtures and Waste.

	NUMBER.
Tank fixtures found leaking	10,539
Faucets	7,995
Closets	4,887
Pipes burst	1,179
Willful waste cases	113

Table XXX.

Notices to Repair.

	NUMBER.	
Delivered on premises.....	16,101	18,000
" by mail.....	1,899	
First notices delivered.....	14,411	18,000
Second "	2,587	
Third "	1,002	

INVENTORY OF PROPERTY OF THE INCOME DIVISION, WATER DEPARTMENT.

AT CITY HALL.

1 black walnut counter, 47½ feet long.	9 cane seat, plain chairs.
1 black walnut counter, 12 feet long.	1 Smith premier typewriter.
1 walnut roll top desk, two cabinets overhead.	1 safe.
7 walnut roll top desks.	2 letter presses.
3 oak roll top desks.	3 clocks.
3 double, oak standing desks, 9 feet 9 inches long.	10 storm windows.
2 single, oak standing desks, 9 feet 9 inches long.	15 window shades.
2 single, walnut standing desks.	1 screen door.
8 triple, walnut desks, 9 feet each, low.	3 mirrors.
1 flat top walnut desk.	2 iron umbrella racks.
5 oak flat top desks.	1 large wooden umbrella rack.
1 typewriter desk.	4 water coolers.
1 shelf desk.	1 folding stepladder.
1 2-foot standing desk.	4 book rests.
1 large walnut table.	13 arm rests.
1 small walnut table.	21 waste baskets.
1 10-foot standing desk.	26 cuspidors.
3 large walnut bookcases.	1 combined thermometer and barometer.
2 walnut slide doorcases.	3 feather dusters.
1 large oak stationery case.	1 large rug.
1 oak letter bookcase.	3 floor mats.
1 large letter press stand.	1 rubber mat.
1 letter file case.	1 oil cloth.
1 oak bill case.	4 electric fans.
3 large book racks.	2 electric portable lamps.
1 2-drawer card case.	2 portable telephones.
51 pasteboard bill cases.	3 water pails.
1 telephone booth.	1 pick.
1 toilet booth.	1 shovel.
16 miscellaneous racks for books, etc.	1 box 5-inch candles.
21 connected wardrobes.	2 boxes tacks.
15 connected wardrobes.	5 lbs. nails.
6 connected wardrobes.	1 iron file.
1 single wardrobe.	3 pairs shears.
11 foot stools.	8 screw drivers.
2 desk platforms.	2 triumph punches.
10 high desk chairs.	2 star paper fasteners.
4 high swivel chairs.	3 sealing machines.
41 low swivel chairs.	20 pounds lead seals.
12 arm chairs.	5 pounds copper wire.
	1 pair gas pliers.
	3 funnels.
	½ gross blue hen matches.
	4 leather bags.
	7 atlases of Boston Districts.

AT METER SERVICE SHOP, JANUARY 31, 1900.

Meters Ready for Service.

Worthington, 4-inch . . . 4	Hersey, 2-inch . . . 4	
" 3 " . . . 2	" 1½ " . . . 1	
" 2 " . . . 13	" 1 " . . . 1	
" 1 " . . . 2	" ½ " . . . 20	27
" ¼ " . . . 6		
	Empire, 1½ " . . . 1	1
Crown, 4 " . . . 5	Trident, 1 " . . . 1	1
" 3 " . . . 1	Lambert, ½ " . . . 1	1
" 2 " . . . 4	Gem, 6 " . . . 1	
" 1½ " . . . 1	" 4 " . . . 1	
" 1 " . . . 1	" 3 " . . . 4	
" ½ " . . . 14	" 2 " . . . 2	8
" ¼ " . . . 58		
	Total	155
Metropolitan, 2 " . . . 1		
" ¼ " . . . 5		
Hersey, 3 " . . . 1		

Meters in Shop Requiring Repairs.

Worthington, 4-inch . . . 1	B. W. W. ½-inch . . . 4	
" 2 " . . . 14		4
" 1½ " . . . 8	Ball & Fitts, 2 " . . . 1	
" 1 " . . . 59	" ½ " . . . 4	
" ¾ " . . . 43	" ¼ " . . . 2	7
" ⅜ " . . . 2		
	Rogers, ½ " . . . 1	1
Crown ⅝ " . . . 9		
	Total	401
Metropolitan, 1 " . . . 25		
" ¼ " . . . 227		
" ⅜ " . . . 1		

METERS IN SERVICE JANUARY 31, 1900.

Worthington, 6-inch . . . 2	Hersey, 4-inch . . . 6	
" 4 " . . . 16	" 3 " . . . 12	
" 3 " . . . 31	" 2 " . . . 23	
" 2 " . . . 131	" 1½ " . . . 41	
" 1½ " . . . 119	" 1 " . . . 80	
" 1 " . . . 553	" ¾ " . . . 165	
" ¾ " . . . 358	" ⅜ " . . . 20	347
Crown, 6-inch . . . 8	Metropolitan, 2 " . . . 3	
" 4 " . . . 41	" 1½ " . . . 20	
" 3 " . . . 54	" 1 " . . . 107	
" 2 " . . . 83	" ¾ " . . . 403	
" 1½ " . . . 165	" ⅜ " . . . 3	536
" 1 " . . . 378		
" ¾ " . . . 457	Thomson, ½ " . . . 2	
" ⅜ " . . . 1,251	" ¼ " . . . 6	8

METERS IN SERVICE JANUARY 31, 1900. — *Concluded.*

B. W. W.	$\frac{1}{4}$ -inch . .	27	Nash,	$1\frac{1}{4}$ -inch. .	1
Gem,	6 " . .	1	"	1 " . .	2
"	4 " . .	4	"	$\frac{1}{2}$ " . .	2
			"	$\frac{3}{8}$ " . .	2
Champion,	$\frac{1}{2}$ " . .	1			7
Torrent,	6-inch. .	1	Disc,	3 " . .	3
Lambert,	2 " . .	1	"	$1\frac{1}{2}$ " . .	4
"	$1\frac{1}{4}$ " . .	3	"	1 " . .	2
"	1 " . .	2	Trident,	1 " . .	1
"	$\frac{1}{2}$ " . .	3	Ball & Fitts, 4	" . .	1
"	$\frac{3}{8}$ " . .	6			1
		15	Crown, $\frac{1}{4}$ -inch, loaned for		2
Empire,	$1\frac{1}{4}$ " . .	6	experimental purposes,		
"	1 " . .	5	Crown, $\frac{3}{8}$ -inch, loaned for		1
"	$\frac{1}{2}$ " . .	2	experimental purposes,		3
		13			
			Total		4621

METERS AT FACTORY FOR REPAIRS.

Worthington, 4-inch	2
Crown, $\frac{3}{8}$ "	11
	11
Total	13

PIPE FITTINGS, METER PARTS, TOOLS, ETC., AT SHOP.

Coupling tubes, $\frac{1}{4}$ -inch,	43	Clocks, Worth., 1-inch,	103
" bushings, 2 inches,	58	" " $\frac{1}{2}$ -inch,	32
" " $1\frac{1}{4}$ inches,	99	" Crown, 4 inches,	16
" tubes bent, 2 inches,	16	" " 3 inches,	4
" " 1-inch,	18	" " 2 inches,	11
" nuts, 2 inches,	10	" " $1\frac{1}{2}$ inches,	12
" " 1-inch,	20	" " 1-inch,	9
Cocks, corp'n, 1,	2	" " $\frac{1}{2}$ -inch,	93
Connection pieces, 2,	3	" " $\frac{3}{8}$ -inch,	55
" " $1\frac{1}{4}$,	7	" Hersey, 4 inches,	6
" " 1,	7	" " 2 inches,	6
" " $\frac{1}{2}$,	15	" " $1\frac{1}{2}$ inches,	5
" " $\frac{3}{8}$,	20	" " $\frac{1}{2}$ -inch,	15
Covers, iron,	107	" " $\frac{3}{8}$ -inch,	3
Clocks, Metro., 1-inch,	25	Carborendum, bbl.,	$\frac{1}{2}$
" " $\frac{1}{2}$ -inch,	40	Dials, Crown,	461
" " need repd,		" Worth.,	256
$\frac{1}{4}$ -inch,	250	" Metro.,	248
Clocks, Worth., 4 inches,	23	" Hersey,	116
" " 3 inches,	11	Discs, 1-inch,	69
" " 2 inches,	50	" $\frac{1}{2}$ -inch,	41
" " $1\frac{1}{4}$ inches,	54	" 2 inches,	19

PIPE FITTINGS, ETC., AT SHOP. — *Continued.*

Discs, 4 inches,	12	Binders, Worthington	91
Drills, twist,	239	Bars, pinch,	2
Drivers, screw,	12	Bars, crow,	2
Elbows, brass, 2 inches,	13	Bags, tool,	3
" " 1½ inches,	26	Boxes, rosin,	2
" " 1-inch,	22	" tool,	3
" " ¾-inch,	7	Boots, rubber, prs.,	4
" " 1½ inches,	23	Brooms, floor,	2
" Galv., 2 inches,	13	" whisk,	1
" " 1½ inches,	10	Buckets,	1
" " 1-inch,	30	Baskets, waste,	2
" " ¾-inch,	19	Bottoms, Worth.,	24
" " 1½ inches,	27	Couplings, female, 2 inches,	48
Extensions, Worth.,	11	" " 1½ inches,	28
" Crown,	7	" " 1-inch,	53
" Hersey,	2	" " ¾-inch,	59
" for testing, 3 inches,	1	" " ½-inch,	89
" " " 1½ inches,	1	" male, 2 inches,	12
" " " 1-inch,	3	" " 1½ inches,	21
" " " ¾-inch,	2	" " 1-inch,	18
" " " ½-inch,	1	" " ¾-inch,	80
Ends, Worth.,	8	" " ½-inch,	63
Flanges, 9 by 4,	3	" bent, 2 inches,	8
" 9 by 3,	6	" " 1-inch,	12
" 8 by 4,	24	" comb., 2 inches,	61
" 8 by 3,	14	" " 1½ inches,	32
Boxes, wooden, large,	44	" " ¾-inch,	34
" small,	36	" galv., 2 inches,	16
" iron, 4 inches,	25	" " 1½ inches,	15
" " 3 inches,	19	" " 1-inch,	17
" " 2 inches,	12	" " ¾-inch,	13
Bolts with nuts, 5½ by ¾ flange,	25	" " 1½ inches,	23
" " " 3½ by ¾ "	78	" tubes, 2 inches,	27
" " " 3 by ¾ "	61	" " 1½ inches,	113
" " " 2½ by ¾ "	841	" " 1-inch,	26
" " " 2½ by ½ meter,	350	" " ¾-inch,	36
" " " 2½ by ½ "	225	Screws, top plate, 6 inches,	6
" no nuts, 2½ by ¾ "	486	Silax, bbl.,	½
" " 2½ by ½ "	270	Stop cocks, 1-inch,	42
" with nuts, 2 by ½ "	806	" " ¾-inch,	4
" " " 2 by ⅝ "	260	" " ½-inch,	18
" no nuts, 1½ by ½ "	216	Solder, lbs.,	20
" " " 1½ by ½ "	315	Tongs,	3
" " " 1½ by ⅞ "	220	Trowels,	2
" " " 1 by ¾ "	223	Torches, flash,	3
" with nuts, 1 by ¾ "	416	Tees, brass, 1½,	12
" " " 1½ by ¾ "	103	" " 1,	35
" " " 1½ by ¾ "	33	" " ¾,	19
" " " ¾ by ¾ "	538	" " 1½,	17
Boxes, counter, Crown,	232	" iron, 1,	3
" Worthington,	194	" " ¾,	4
" Hersey,	75	" " 1½,	13
" Metropolitan,	47	Tops, crown, 4,	3
" lids, Crown,	331	" " 2,	2
" Hersey,	20	" " 1½,	1
" Metropolitan,	48	Unions, brass, 2,	7
" Worthington,	194	" " 1½,	8
" by-pass,	12	" " 1,	6
Board, leather, lbs.,	70	" galv., 2,	2
Buffers, Worthington,	157	" " 1½,	3

PIPE FITTINGS, ETC., AT SHOP.— *Concluded.*

Unions, galv., 1,	12	Levers, Worth., with ratchets,	
" " $\frac{1}{2}$,	9	4 inches,	7
" " $1\frac{1}{2}$,	8	Levers, Worth., with ratchets,	15
Reducers, comp., $1\frac{1}{2}$,	16	3 inches,	
Reducers, comp., $1\frac{1}{2}$,	16	Levers, Worth., with ratchets,	38
" " $\frac{1}{2}$,	115	2 inches,	
Valves, Chapman, 2,	16	Levers, Worth., with ratchets,	36
" " $1\frac{1}{2}$,	23	$1\frac{1}{2}$ -inch,	
" check, 2,	3	Levers, Worth., with ratchets,	29
" " $1\frac{1}{2}$,	2	1-inch,	
" " $\frac{1}{2}$,	2	Levers, Worth., with ratchets,	37
" " $\frac{1}{2}$,	19	$\frac{1}{2}$ -inch,	5
" " $1\frac{1}{2}$,	9	Knives,	79
Glands, top plate,	153	Nipples, solder, $1\frac{1}{2}$,	126
Valves and seats, 3 inches,	10	" " $\frac{1}{2}$,	4
" " $1\frac{1}{2}$ inches,	12	" " $\frac{1}{2}$,	6
" " 1-inch,	23	Nipples, 2,	93
" " $\frac{1}{2}$ -inch,	58	" $1\frac{1}{2}$,	59
" 2 inches,	12	" 1,	431
" $1\frac{1}{2}$ inches,	12	" $\frac{1}{2}$,	635
" 1-inch,	39	" $\frac{1}{2}$,	192
Washers, rubber,	184	Nipples, close, 2,	37
" cork,	1,074	" " $1\frac{1}{2}$,	36
Wrenches, monkey,	9	" " 1,	52
" Stilson,	5	" " $\frac{1}{2}$,	12
" fork,	15	Plates, circular, 3 feet,	1
" gate,	2	" " 1 foot,	1
" stopcock,	3	" " 10 inches,	1
Pressure gauges,	3	" " 5 inches,	1
Stop-watches,	2	Pipe lead, lbs.,	175
Crane, block and fall,	1	" flanged, 6 by 4,	2
3 way-cock, $1\frac{1}{2}$,	2	" " 4,	12
" 1,	1	" " 4 by 3,	21
Large tank and scale,	1	" " 3,	5
Small " " "	1	Picks,	3
Small tank, wooden,	1	Pots, solder,	1
Valves, 4 inches,	1	Pumps, force,	3
" 3 inches,	2	Punch, centre,	1
" 2 inches,	2	Pliers, gas,	1
" $1\frac{1}{2}$ inches,	1	Plate screws, crown,	780
" 1-inch,	3	" " Hersey,	581
Old iron (junk), lbs.,	9,692	Pipe substitute, 6 inches,	1
" compo. " "	3,458	" " 4 inches,	2
" copper, " "	72	Rods, piston, 4,	10
" rubber, " "	425	" " 3,	12
Frames, iron,	88	" " 2,	15
Files,	9	" " $1\frac{1}{2}$,	44
Gears, crown,	2,505	" " 1,	28
" Hersey,	817	" " $\frac{1}{2}$,	12
" Metro.,	403	Ratchets complete,	102
Hammers, striking,	9	Reducers, meter, 1-inch,	270
" paving,	3	" " $\frac{1}{2}$ -inch,	654
Hatchet,	1	" " $\frac{3}{8}$ -inch,	706
Intermediate gears, crown,	226	Shovels,	3
" " Hersey,	90	Stove oil,	1
Irons, solder,	3	Shelves, wooden,	84
Levers, Worth., 2 inches,	41	Stands, " "	34
" " $1\frac{1}{2}$ inches,	18	Strainers, fish box,	33
" " 1-inch,	40	Spindles, intermediate,	23
" " $\frac{1}{2}$ -inch,	33		

IN STABLE.

11 Blankets.	2 Robes.
4 Brushes.	1 Sponge.
1 Buggy, Democrat.	1 Shovel.
" " open condemned.	5 Surcingles.
3 Combs, currie.	2 Weights.
4 Harness sets, good.	1 Whip.
2 " " fair.	3 Wagons, express.
5 Halters.	1 Wagon, Concord.
2 Horses, driving.	2 Pugs.
3 " working.	

METER SERVICE. PROPERTY IN OFFICE.

1 large oak case, 24 drawers, with cards.	2 mahogany tables.
1 small oak case, 9 drawers, with cards.	3 window shades.
2 oak roll top desks.	3 window screens.
2 standing desks.	1 door screen.
2 oak arm chairs.	1 pine wardrobe.
2 oak arm chairs, adjustable.	1 typewriter table.
2 oak high chairs, adjustable.	1 Barlock typewriter.
1 German mirror.	6 towels.
1 pine cabinet.	1 feather duster.
2 pine tables, with drawers and closets.	2 cuspidors.
	1 pair shears.

APPENDIX B.

REPORT OF THE DISTRIBUTION DIVISION.

OFFICE OF THE SUPERINTENDENT,
710 ALBANY STREET, February 1, 1900.

HON. A. P. MARTIN,

Water Commissioner:

I herewith submit the annual report of the Distribution Division for the year ending January 31, 1900.

MAIN PIPE.

During the year there were laid 27.4 miles of main pipe. Ten and five-tenths miles were abandoned, making the total length of the distribution system 706.1 miles.

Of the 27.4 miles laid, 10 miles were relaid, an unusually great amount.

In addition to the above, and not included in the total length of our distribution system, there were laid 3,445 feet of hydrant, blow-off, and reservoir pipe, and 1,504 feet of the same class were abandoned.

Eight thousand five hundred and fifteen feet of main pipe of various sizes was either raised, lowered, or moved laterally. This work was necessitated by the various operations of the Street Department, railroad, and other corporations throughout the city.

The year's work was chiefly noticeable for the great amount of relaying done in the older districts where the supply mains were quite inadequate to the requirements of domestic and fire service.

Considerable work was done in the new sections of the city, principally in Commonwealth-avenue extension, where over 10,000 feet of 12-inch pipe was laid.

The 24-inch West Roxbury high service line was completed in South and Centre streets as far as Beech street and there reduced to 20 inches. This was then laid to Spring street. Connections on this line were made at Beech, La Grange and Spring streets. The line is a valuable

acquisition to the high service in the West Roxbury district.

The low service in the City Point district of South Boston was reinforced by 20-inch, 16-inch, and 12-inch mains laid through Third and Q streets.

The work of further extending the 30-inch high service main in Washington street, Dorchester, was recently resumed, and is now being pushed forward, so that before long the extreme sections of the Dorchester district will feel the effects of this additional supply.

In Washington street, city proper, between Boylston and Kneeland streets a section of 20-inch pipe was laid, giving an improved service in the vicinity of the Southern Union Station.

In the Brighton district the fire service was augmented by laying a 16-inch line in Spurr street, connecting with the Metropolitan Water Works main, and by increasing the size of the Western-avenue main from 12 to 16 inches.

GATES OR STOP-COCKS.

Five hundred and seventy gates were established and 225 abandoned; of the former 18 were "blow-off" and 1 was "private," and of the latter 5 were "blow-off" and 1 was "private." The total number of gates in use, exclusive of "blow-off" and "private" gates, is 8,671. The gates and their boxes have been looked after with care, as reference to our "statement of miscellaneous work performed" will show.

AIR-COCKS.

Fifteen air-cocks were established and 1 abandoned.

BLOW-OFF COCKS.

Three were established.

DEACON METERS.

One was established at the corner of Tremont and Compton streets, to take the place of the one abandoned last year at the corner of Castle and Tremont streets, on account of railroad operations at that point.

CHECK VALVES.

Check valves were established and abandoned as follows:
Established, 1 10-inch in Auburn street, at Bunker Hill street, Charlestown.

Established, 1 8-inch in Bunker Hill street, at Pearl street, Charlestown.

Abandoned, 1 8-inch in Walter street, at Hewlett street, West Roxbury.

Abandoned, 1 8-inch in Fairview street, between South and Symmes streets, West Roxbury.

HYDRANTS.

Four hundred and eighty-three hydrants were established and 367 abandoned. The total number connected with our system is 7,484. The usual attention was given the maintenance of these most important fixtures, a glance at our "statement of miscellaneous work performed" giving an idea of the same. We have recently begun the manufacture of the "Bachelder" pattern of hydrant on a somewhat larger scale than formerly, and before long we shall be able to install this improved type of hydrant more generally than was the custom.

Three thousand three hundred and twenty-one bags of salt were purchased by this department and delivered to the Fire Department to be used on hydrant covers during the cold weather.

WATER-POSTS.

Fifty-one water-posts were established and 12 abandoned, making a total now in use of 494. The usual attention was paid to their maintenance.

FOUNTAINS.

During the year drinking fountains were established as follows: Twenty-four "cold water," 2 "ordinary" for man and beast, 1 ordinary for man only, and 3 for beasts only. There were abandoned, 3 ordinary for man and beast and 2 for beasts only. We also changed two "cold water" fountains to "ordinaries" for men only. This makes the total now in use 121, of which 32 are "cold water" fountains.

SERVICE PIPES.

Two thousand three hundred service pipes (55,647 feet) have been laid during the year, and 338 (7,901 feet) abandoned, showing a net increase of 1,962 service pipes (47,746 feet) for the year, and making the total number of pipes now in use 86,091, with a length of 2,391,171 feet.

Under the law governing the laying out of new streets, we were obliged to lay to vacant lots 481 service pipes from

which no revenue is at present derived. These are included in the figures above.

MAINTENANCE.

Many repairs of a various nature have been made on main and service pipes during the year for causes of which see table appended. The "statement of miscellaneous work performed," also appended, will give an idea of some of the work necessary to the maintenance of the department.

Considerable changing and relocating of pipes was necessitated this year by the operations of the Boston Elevated Railway, and the Massachusetts Pipe Line Gas Company.

The various yards, buildings, reservoirs and properties of the department have been given the usual care and attention, and are all in first-class condition. A portion of the stable at the Albany-street yard has been set apart and fitted up as quarters for an emergency wagon. Facilities for a "quick hitch" and rapid despatch of the wagon to wherever it may be needed were installed.

FIRE RESERVOIRS.

The following fire reservoirs and their connections with our system (including seven 4-inch gates) were abandoned: Washington street, near Dover street, opposite old Franklin School-house.

Washington street, at Union Park street.

Leverett street, near Spring street.

Washington street, at Kneeland street.

Derne street, between Hancock and Bowdoin streets.

Somerset street, between Howard street and Ashburton place.

Atlantic avenue, near Essex street.

HARBOR SERVICE.

Aside from the usual care and attention given our pipes in the harbor district, nothing of note was done except the extension by about 1,400 feet of the additional 12-inch supply on Moon Island, between the gate-house and the sea wall.

Appended you will find tables showing details of the work performed, and upon page 156 a schedule of the stock and property owned by the department.

Yours respectfully,

WILLIAM J. WELCH,
Superintendent.

Statement of Service Pipes Laid and Abandoned during the Year ending January 31, 1900.

SIZE OF SERVICES.	BOSTON.		SOUTH BOSTON.		EAST BOSTON.		ROXBURY.		DORCHESTER.		WEST ROXBURY.		BRIGHTON.		CHARLES-TOWN.		TOTAL.	
	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.	Number of services.	Length in feet.
6-inch laid.....	2	23							1	36			1	20			4	79
6 " abandoned.....	1	1,008							7	272			1	48			2	5
4 " laid.....	3	36	7	144			1	43			1	72					66	1,608
4 " abandoned.....	26	5494	4	282	1				2	38			4	1823			6	86
3 " laid.....	3	40															39	1,152
3 " abandoned.....	8	1454	3	524													3	40
2 " laid.....	6	108			1	48	2	51		1	3	564	1	19			19	385
2 " abandoned.....	30	796	1	33	1	42	1	119	1	28	2	10	1	12			8	1604
1 " laid.....	183	183	1	12			1	20		53							41	1,055
1 " abandoned.....	3	85							2								11	215
1 " laid.....	1	16															6	167
1 " abandoned.....	50	1,505	7	279	3	93	12	279	4	1584			3	86			2	46
1 " laid.....	17	465	3	201	2	64	3	34	1	12	4	89	2	16			85	2,5004
1 " abandoned.....	21	842	6	414	2	318	7	235	10	290	1	52	2	47			5	781
1 " laid.....	8	188					125						1	156			13	469
1 " abandoned.....	91	2,1454	72	2,191	80	2,4764	607	14,5284	677	15,4513	259	5,696	155	3,2544	47	898	1,988	46,5414
1 " laid.....	139	3,326	16	320	5	150	28	942	24	3224	15	187	4	139			235	5,3854
1 " abandoned.....			4	121	5	145	12	239	4	149							31	711
Total laid.....	279	7,0994	100	3,3954	88	3,0494	634	15,2974	704	16,2384	271	5,8944	168	3,669	56	1,034	2,300	55,6474
Total abandoned.....	186	4,362	25	669	12	368	49	1,375	30	5134	15	187	5	285	16	142	338	7,9014
Net increase.....	93	2,7374	75	2,7264	76	2,6814	585	13,9224	674	15,725	256	5,7074	163	3,384	40	892	1,962	47,7464

Table showing Length of Distribution Mains Laid or Relaid, and Abandoned during the year 1899, and the Total Length of the Distribution System of the City of Boston, January 31, 1900.

	DIAMETER OF PIPES IN INCHES.															Totals.	
	48	42	40	36	30	28	24	20	16	12	10	8	6	4	3		2
Total connected with system, January 31, 1899.....	33,671	16,813	23,104	39,984	81,621	244	81,610	88,034	141,057	1,011,806	76,833	477,032	1,433,012	123,178	7,676	3,495	3,639,170
Length laid or relaid during the year.....				12	487		2,333	3,962	14,671	53,498	4,649	28,174	31,162	69		657	144,674
Length abandoned during the year.....				12	59		41	296	372	8,368	50	2,767	28,072	14,633	140	667	55,527
Total connected with system, January 31, 1900.....	33,671	16,813	23,104	39,984	82,049	244	83,902	96,700	155,356	1,056,036	81,432	502,439	1,436,102	108,564	7,536	3,485	3,728,317 or 706.1 m.

Statement of Hydrant, Blow-off, and Reservoir Pipes, January 31, 1900.

	DIAMETER IN INCHES.								Totals.
	16	12	10	9	8	6	4	3	
•									
Total length in use January 31, 1899.....	472	7,140	105	2,781	1,128	29,386	9,607	3	50,022
Length laid or relaid during the year.....					11	3,384	50		3,445
Length abandoned during the year.....		88		41		395	980		1,504
Total length in use January 31, 1900.....	472	7,052	105	2,740	1,139	32,375	8,677	3	52,563

**Statement of Location, Size and Number of Feet of Main
Pipe Relaid during the Year ending January 31,
1900.**

NOTE.—C. P. indicates City Proper; Rox., Roxbury; W. R., West Roxbury; Bri., Brighton; Dor., Dorchester; So. B., South Boston; E. B., East Boston; Chsn., Charlestown.

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
Heath st.....	Bickford ave. and Heath pl.....	Rox.	36-in.	12	36-in.
Boylston st.....	At Washington st.....	C. P.	30-in.	8	30-in.
Tremont st.....	Opposite Common st.....	"	"	12	"
Cambridge st.....	Junction Main st.....	Chs'n.	"	6	"
	Total 30-inch.....			38	
New Heath st.....	Near Centre st.....	Rox.	24-in.	10	24-in.
Fisher ave.....	" Hayden st.....	"	"	12	"
South st.....	Roberts st. and Bradford terrace....	W. R.	"	5	"
Main st.....	Alford st. and Railroad crossing....	Chs'n.	"	6	"
" ".....	Opposite No. 646.....	"	"	8	"
	Total 24-inch.....			41	
Columbus ave.....	At B. & A. R. R. bridge.....	C. P.	20-in.	4	20-in.
" ".....	" " ".....	"	"	250	"
Andrews sq.....	" Dorchester ave.....	So. B.	"	9	"
Dorchester st.....	" " ".....	"	"	24	"
Cambridge st.....	Junction Main st.....	Chsn.	"	5	"
Harvard ave.....	At Columbia st.....	Br'kline.	"	16	"
	Total 20-inch.....			302	
Atlantic ave.....	Dewey sq. and Oliver st.....	C. P.	16-in.	1,281	12-in.
" ".....	Essex st. and Dewey sq.....	"	"	436	"
Beacon st.....	Mt. Vernon and Bowdoin sts.....	"	"	155	"
Bowdoin st.....	Beacon st. and Ashburton pl.....	"	"	400	6-in.
Causeway st.....	Prince and Medford sts.....	"	"	500	12-in.
Kneeland st.....	Atlantic ave. and Utica st.....	"	"	370	6-in.
" ".....	Washington and Albany sts.....	"	"	948	"
Park st.....	Tremont and Beacon sts..	"	"	4	16-in.
Pearl st.....	At High st.....	"	"	4	16-in.
Summer st.....	" Dewey sq.....	"	"	48	12-in.
Blue Hill ave.....	" Stratton st.....	Dor.	"	4	16-in.
	Carried forward.....			4,150	

Statement of Main Pipe Relaid — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>.....	.....	.....	4,150	
Columbia road.....	Opposite Cushing ave.....	Dor.	16-in.	15	16-in.
" ".....	At D st.....	So. B.	"	10	12-in.
Q st.....	Broadway and Fifth st.....	"	"	244	8-in.
Boylston st.....	At Ipswich st.....	Rox.	"	3	16-in.
Shawmut ave.....	" Ball st.....	"	"	3	"
Chestnut Hill ave..	" North side Commonwealth ave.	Bri.	"	3	"
Western ave.....	Spurr and Everett sts.....	"	"	1,085	12-in.
" ".....	At Spurr st.....	"	"	3	"
Alford st.....	Northerly end of Malden bridge.....	Chen.	"	4	16-in.
Dorrance st.....	Main st. and Arlington ave.....	"	"	84	6-in.
Main st.....	Opposite No. 29.....	"	"	12	16-in.
" ".....	At Monument ave.....	"	"	12	"
" ".....	Opposite No. 76.....	"	"	12	"
" ".....	" No. 82.....	"	"	12	"
" ".....	" Pleasant st.....	"	"	12	"
" ".....	" No. 102.....	"	"	12	"
" ".....	" No. 108.....	"	"	12	"
" ".....	" No. 112.....	"	"	12	"
" ".....	Junction Union st.....	"	"	12	"
" ".....	Opposite No. 120.....	"	"	12	"
" ".....	" Monument ave.....	"	"	5	"
" ".....	" No. 162.....	"	"	12	"
" ".....	At Austin st.....	"	"	14	"
" ".....	" Frothingham ave.....	"	"	8	"
" ".....	" Miller st.....	"	"	12	"
" ".....	" Allen st.....	"	"	8	"
" ".....	" Middlesex st.....	"	"	8	"
" ".....	Opposite No. 268.....	"	"	12	"
" ".....	" No. 278.....	"	"	12	"
" ".....	" No. 284.....	"	"	12	"
" ".....	At Philipps st.....	"	"	12	"
" ".....	Opposite Meade st.....	"	"	7	"
" ".....	" Irving place.....	"	"	5	"
	<i>Carried forward</i>.....	.....	.....	5,851	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			5,851	
Middlesex st.....	At Main st.....	Chsn.	16 in.	4	16-in.
Monument sq.....	Junction High and Winthrop sts....	"	"	12	"
Condor st.....	Opposite pumping station.....	E.B.	"	9	"
	Total, 16-inch.....			5,876	
Albany st.....	At Kneeland st.....	C. P.	12-in.	8	12-in.
" ".....	" Genesee st.....	"	"	3	"
" ".....	Way and Oswego sts.....	"	"	50	"
" ".....	Rochester and Genesee sts.....	"	"	4	"
Ashburton pl.....	Bowdoin and Somerset sts.....	"	"	356	6-in.
Beacon st.....	Opposite Joy st.....	"	"	8	12-in.
" ".....	At Joy st.....	"	"	3	"
" ".....	Opposite No. 21.....	"	"	3	"
Berkeley st.....	At Chandler st.....	"	"	8	"
Blackstone st.....	Hanover and North sts.....	"	"	463	"
Bowdoin st.....	Ashburton pl. and Derne st.....	"	"	168	6-in.
Boylston st.....	Opposite Arlington st.....	"	"	4	12-in.
Broad st.....	Junction India st.....	"	"	9	"
Castle st.....	Village and Albion sts.....	"	"	4	"
Causeway st.....	At Portland st.....	"	"	3	"
" ".....	" Canal st.....	"	"	5	"
Chandler st.....	" Castle sq.....	"	"	100	6-in.
" ".....	Castle sq. and Berkeley st.....	"	"	270	"
Charlestown st.....	At Travers st.....	"	"	3	12-in.
" ".....	" Causeway st.....	"	"	30	"
" ".....	Thacher and Causeway sts.....	"	"	43	"
Columbus ave.....	At B. & A. R.R. bridge.....	"	"	19	"
" ".....	" " ".....	"	"	120	"
" ".....	" " ".....	"	"	118	"
Commercial st.....	Opposite Greenough Lane.....	"	"	3	"
Derne st.....	Hancock and Bowdoin sts.....	"	"	416	6 & 8
Dock sq.....	Faneuil Hall sq. and Exchange st..	"	"	155	6-in.
" ".....	From Union st.....	"	"	89	"
Dover st.....	At Washington st.....	"	"	16	12-in.
	<i>Carried forward</i>			2,481	

Statement of Main Pipe Relaid. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			2,481	
Endicott st.....	At Thacher st.....	C. P.	12-in.	4	12-in.
" ".....	" Causeway st.....	"	"	36	"
Faneull Hall sq....	Merchants row and Dock sq.....	"	"	260	6-in.
" " ".....	" " ".....	"	"	198	"
Federal st.....	At Milton pl.....	"	"	4	12-in.
Hancock st.....	Myrtle and Derne sts.....	"	"	45	6-in.
Harrison ave.....	At Massachusetts ave.....	"	"	6	12-in.
Harvard st.....	" Harrison ave.....	"	"	5	"
Hudson st....	" Kneeland st.....	"	"	46	6-in.
India st.....	" Broad st.....	"	"	5	12-in.
Joy st.....	Beacon and Myrtle sts.....	"	"	799	6-in.
" ".....	Junction Mt. Vernon st.....	"	"	4	12-in.
Lehigh st.....	125 feet from Albany st.....	"	"	4	"
" ".....	From Albany st.....	"	"	90	"
Leverett st.....	Minot and Charles st.....	"	"	837	"
" ".....	Opposite Charles st.....	"	"	4	"
" ".....	200 feet from Causeway st.....	"	"	3	"
Louisburg sq.....	Pinckney and Mt. Vernon st.....	"	"	294	4-in.
Lynde st.....	Cambridge and Green st.....	"	"	9	12-in.
Mason st.....	Tremont and West st.....	"	"	208	6-in.
Merchants row....	Faneull Hall sq. and Chatham st ..	"	"	18	8-in.
Motte st.....	Washington and Harrison ave.	"	"	50	12-in.
" ".....	At Washington st.....	"	"	18	"
Mt. Vernon st.....	" Louisburg sq.....	"	"	4	"
" " ".....	West Cedar st. and Louisburg sq. ..	"	"	7	"
Myrtle st.....	At Joy st.	"	"	4	"
Northampton st....	" Division st.....	"	"	5	"
" ".....	" Washington st.....	"	"	8	"
Oliver st.....	Milk and High sts.....	"	"	660	"
Oswego st.....	Harrison ave. and Albany st.....	"	"	531	"
Pinckney st.....	Louisburg sq. and Joy st.....	"	"	664	"
Prince st.....	Opposite Thatcher st.	"	"	3	"
Somerset st.....	Howard st. and Ashburton place ...	"	"	490	6 and 8-in.
	<i>Carried forward</i>			7,799	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			7,799	
South st.	Near Utica st.	C. P.	12-in.	8	12-in.
“ “	South of Kneeland st.	“	“	4	“
South Market st.	Commercial st. and Merchants row,	“	“	580	6-in.
Spring st.	At Leverett st.	“	“	24	“
Summer st.	West side of Dewey sq.	“	“	6	12-in.
Traverse st.	At Charlestown st.	“	“	3	“
“ “	“ “ “	“	“	3	“
Tremont st.	North-east corner Dover st.	“	“	9	“
“ “	At Kendall st.	“	“	3	“
Tyler st.	“ Kneeland st.	“	“	46	6-in.
Washington st.	On B. & A. Railroad bridge.	“	“	152	12" 16"
“ “	Waltham and Rollins sts.	“	“	139	8-in.
Way st.	At Albany st.	“	“	70	12-in.
Adams st.	“ Medway st.	Dor.	“	4	“
“ “	“ Richmond st.	“	“	4	“
Bernard st.	Opposite Lauriat ave.	“	“	12	“
Chickatawbut st.	Narragansett and Plain sts.	“	“	345	6-in.
Columbia road.	Junction Hancock st.	“	“	6	12-in.
“ “	West of Davenport ave.	“	“	4	“
Esmond st.	Harvard and Bradshaw sts.	“	“	437	6-in.
Hamilton st.	North of Bowdoin st.	“	“	4	12-in.
“ “	At Coleman st.	“	“	4	“
“ “	North of Coleman st.	“	“	3	“
“ “	At Clarkson st.	“	“	4	“
“ “	North of Clarkson st.	“	“	3	“
“ “	South of Barry st.	“	“	4	“
“ “	Columbia road and Mt. Everett ave.	“	“	3	“
“ “	At Mt. Everett ave.	“	“	4	“
“ “	Mt. Everett ave. and Bellevue st.	“	“	4	“
Hancock st.	At Trull st.	“	“	14	“
Harvard st.	“ Millet st.	“	“	4	“
Kilton st.	West Park and Harvard sts.	“	“	264	8-in.
Lauriat ave.	Norfolk and Tucker sts.	“	“	653	12-in.
	<i>Carried forward</i>			10,621	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District	Size.	Length.	Original Size.
	<i>Brought forward</i>			10,621	
Lonsdale st.....	At Florida st.....	Dor.	12-in.	17	12-in.
Morton st.....	Oakridge and Sanford sts.....	"	"	359	6-in.
" ".....	At Sanford st.....	"	"	38	"
Narragansett st.....	Minot and Chickatawbut sts.....	"	"	287	"
Neponset ave.....	Walnut st. and Neponset bridge.....	"	"	723	"
Newhall st.....	Pierce ave. and Ashmont st.	"	"	606	"
Norfolk st.....	Edson st. and Lauriat ave.....	"	"	132	"
Pierce ave.....	Plain and Newhall sts.	"	"	122	"
Plain st.....	Chickatawbut st. and Pierce ave...	"	"	705	"
River st.....	At Morton st.....	"	"	10	12-in.
" ".....	" " " (connecting M. W. W.)	"	"	7	"
Robinson st.....	" Arcadia st.....	"	"	3	"
Southern ave.....	" Elmhurst st.....	"	"	3	"
Washington st.....	Columbia road and Blue Hill ave...	"	"	12	"
" ".....	At Lynnville terrace.....	"	"	11	"
Westville st.....	" Bowdoin sq.....	"	"	5	"
Boston st.....	Ellery st. and Andrews sq.....	So. B.	"	385	6-in.
" ".....	At Andrews sq.....	"	"	60	12-in.
D st.....	" Bowen st.....	"	"	12	"
Dorchester ave.....	" Powers st.....	"	"	10	"
" ".....	" " ".....	"	"	6	"
" ".....	" Railroad Bridge.....	"	"	72	"
Dorchester st.....	" Third st. (east).....	"	"	12	"
" ".....	" " " (west).....	"	"	4	"
Foundry st.....	" Fourth st.....	"	"	13	"
Fourth st.....	" Emerson st.....	"	"	7	"
" ".....	P and Q sts.....	"	"	31	6-in.
L st.....	At Emerson st.....	"	"	8	12-in.
".....	" Columbia road.....	"	"	21	"
Seventh st.....	" Grimes st.....	"	"	5	"
Albany st.....	" Webber st.....	Rox.	"	3	"
" ".....	" Ambrose st.....	"	"	3	"
Amory st.....	" Dimock st.....	"	"	6	"
	<i>Carried forward</i>			14,319	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			14,819	
Amory st.	Bragdon st. and West Walnut pk...	Rox.	12-in.	3	12-in.
Atkinson st.	Swett and unnamed st.	"	"	3	"
Audubon road ..	At Queensbury st.	"	"	3	"
" "	" Jersey st.	"	"	3	"
Ball st.	Shawmut ave. and Washington st...	"	"	529	6-in.
Beacon st.	At Aberdeen st.	"	"	3	12-in.
Blue Hill ave.	Opposite Huckins st.	"	"	12	"
" " "	At Quincy st.	"	"	8	"
Boylston st.	" Audubon road.	"	"	3	"
Brookline ave.	" Jersey st.	"	"	3	"
Centre st.	Opposite No. 358.	"	"	6	"
Charlesgate west..	Over Ipswich st.	"	"	96	"
Dearborn st.	At Ambrose st.	"	"	3	"
Fisher ave.	Estey st. and Parker Hill ave.	"	"	3	"
Harrison ave.	Webber and Nawn sts.	"	"	67	6-in.
Heath st.	Near Day st.	"	"	8	12-in.
Humboldt ave.	At Townsend st.	"	"	18	"
" "	Opposite Harrishof st.	"	"	3	"
" "	At Wyoming st.	"	"	3	"
" "	" Hutchings st.	"	"	6	"
Hunneman st.	From Washington st.	"	"	28	6-in.
" "	At Fellows st.	"	"	3	12-in.
Ipswich st.	" Boylston st.	"	"	12	"
Jersey st.	Boylston and Queensbury sts.	"	"	8	"
Marcella st.	Highland and Centre sts.	"	"	996	6-in.
New Heath st.	At Centre st.	"	"	40	"
Parker st.	" Madison ct	"	"	6	12-in.
Shirley st.	Norfolk and Massachusetts aves..	"	"	426	6-in.
Tremont st.	At Vernon st.	"	"	3	12-in.
" "	" McCarthy pl.	"	"	3	"
Vernon st.	Downing and Tremonts sts.	"	"	620	6-in.
Walnut ave.	At Dennison st.	"	"	4	12-in.
Warren st.	" Quincy st.	"	"	18	"
	<i>Carried forward</i>			17,269	

Statement of Main Pipe Relaid.—Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			17,269	
Washington st.	At Hunneman st.....	Rox.	12-in.	8	12 in.
“ “	“ Nawn st.....	“	“	8	“
“ “	“ Ball st.....	“	“	15	“
Amory st.....	Atherton and School sts.....	W. R.	“	3	“
Beech st.....	At Poplar st.....	“	“	3	“
“ “	“ Centre st.....	“	“	10	“
Birch st.....	“ Corinth st.....	“	“	7	“
Boylston st.....	“ Brookside ave.....	“	“	3	“
Brookside ave.	Boylston and Green sts.....	“	“	1,206	6-in.
Call st.	At Carolina ave.....	“	“	3	12-in.
“ “	“ Williams st.	“	“	14	“
Canterbury st.....	“ Seymour st.	“	“	3	“
Centre st.	“ Congreve st.....	“	“	3	“
“ “	“ Beech st.....	“	“	15	“
“ “	Over N. Y., N.H. and H. R.R. bridge,	“	“	130	“
“ “	At Beech st.	“	“	4	“
“ “	“ Spring st.....	“	“	3	“
Cornwall st.....	Brookside ave. and Washington st.,	“	“	554	6-in.
Keyes st.....	At Lee st.	“	“	43	12-in.
La Grange st.....	“ Centre st.....	“	“	3	“
Montebello road ...	Walnut ave. and Washington st....	“	“	10	“
Newburg st.....	At Berry st.	“	“	5	“
Pond st.....	“ Moreland pl.....	“	“	5	“
Spring st.	“ Centre st.....	“	“	3	“
Washington st.....	“ Cornwall st.....	“	“	10	“
Cambridge st.....	“ Saunders st.....	Brighton	“	3	“
“ “	“ Rodney st.....	“	“	3	“
“ “	“ Sparhawk st.....	“	“	3	“
“ “	“ Windom st.	“	“	3	“
“ “	“ Seattle st.....	“	“	3	“
“ “	“ Sorrento st.....	“	“	3	“
“ “	Opposite gas house.....	“	“	12	“
“ “	“ “ “	“	“	30	“
Chiswick road.....	At north side Commonwealth ave...	“	“	18	8-in.
	<i>Carried forward</i>			19,408	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			19,408	
Commonwealth av.,	At Chester st.....	Brighton	12-in.	4	12-in.
Everett st.....	" Cleveland ave.....	"	"	8	"
" "	" Braintree st.....	"	"	6	"
" "	" Western ave.....	"	"	8	"
Faneull st.....	" Fairbanks st.....	"	"	8	"
" "	" " "	"	"	27	"
" "	" Montfern st.....	"	"	8	"
" "	" Fairbanks st.....	"	"	8	"
" "	" Brackett st.....	"	"	8	"
Foster st	" Unnamed st.....	"	"	8	"
North Harvard st..	" Empire st.....	"	"	8	"
" " "	" Spurr st.....	"	"	8	"
Nonantum st.....	" Washington st.....	"	"	14	"
Oak sq.....	Washington and Faneull sts.	"	"	12	"
Sutherland road...	At Orkney road.....	"	"	3	"
Warren st.....	Across Commonwealth ave.....	"	"	16	"
Washington st	At Crescent ave.....	"	"	4	"
" "	" Brackett st	"	"	8	"
" "	Across Commonwealth ave.....	"	"	30	"
" "	At Nonantum st.....	"	"	8	"
" "	" Montfern ave.....	"	"	8	"
Western ave	" Spurr st.....	"	"	11	"
Dorrance st.....	Main st. and Arlington ave.....	Chsn.	"	659	6-in.
Bennington st.....	West side of Marion st.....	E. B.	"	3	12-in.
" "	Opposite No. 17.....	"	"	3	"
" "	" " 43.....	"	"	4	"
" "	300 ft. east of Porter st.....	"	"	5	"
" "	Near corner of London st.....	"	"	5	"
" "	620 ft. east of Porter st.....	"	"	8	"
Chelsea st.....	Opposite No. 75.....	"	"	4	"
" "	Junction Marion st.....	"	"	4	"
" "	Opposite No. 143.....	"	"	4	"
" "	At Bridge.....	"	"	36	"
	<i>Carried forward</i>			20,311	

Statement of Main Pipe Relaid. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			20,311	
Chelsea st.....	At Saratoga st.....	E. B.	12-in.	9	12-in.
Condor st.....	Opposite Pumping Station.....	"	"	37	"
Maverick st.....	At Orleans st.....	"	"	5	"
Meridian st.....	" Havre st.....	"	"	3	"
" ".....	North of Havre st.....	"	"	3	"
Orient pl.....	At Orient ave.....	"	"	6	6 and 12-in.
Saratoga st.....	At Byron st.....	"	"	8	12-in.
" ".....	West of Swift st.....	"	"	8	"
Sumner st.....	East of London st.....	"	"	3	"
Walley st.....	North of Leyden st.....	"	"	4	"
White st.....	Opposite No. 68.....	"	"	6	"
" ".....	Opposite No. 29.....	"	"	5	"
	Total 12-inch.....			20,408	
Compton st.....	At Tremont st.....	C. P.	10-in.	6	10-in.
Dover st.....	" Harrison ave.....	"	"	10	"
Medway st.....	From Adams st.....	Dor.	"	240	6-in.
Taylor st.....	Water st. and Neponset ave.....	"	"	1,054	"
Baldwin st.....	Granite and A sts.....	So. B.	"	273	4-in.
Bowen st.....	C and E sts.....	"	"	809	4 and 6-in.
Sixth st.....	At Parkway.....	"	"	15	8-in.
Harrischof st.....	Across Walnut ave.....	Rox.	"	15	10-in.
Sterling st.....	West from Shawmut ave.....	"	"	116	6-in.
Fairbanks st.....	At Faneull st.....	Bri.	"	359	6-in.
Auburn st.....	" Bunker Hill st.....	Chn.	"	4	10-in.
" ".....	" Main st.....	"	"	4	"
Monument sq.....	Junction High and Winthrop sts.....	"	"	4	"
Pearl st.....	At Bartlett st.....	"	"	6	"
Saratoga st.....	" Bennington st.....	E. B.	"	3	"
	Total 10-inch.....			2,918	
Avery st.....	At Mason st.....	C. P.	8-in.	8	6-in.
Berkeley st.....	Corner Marlborough st.....	"	"	4	8-in.
	<i>Carried forward</i>			12	

Statement of Main Pipe Relaid. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original size.
	<i>Brought forward</i>			12	
Boylston st.....	At Bumstead ct.....	C. P.	8-in.	38	8-in.
Brighton st.....	" Leverett st.....	"	"	30	6-in.
Essex st.....	" Atlantic ave.....	"	"	11	8-in.
Exchange st.....	" Dock sq.....	"	"	30	6-in.
Genesee st.....	Albany st. and Harrison ave.....	"	"	536	"
Harrison ave.....	At Harvard st.....	"	"	36	8-in.
" "	" Kneeland st.....	"	"	12	"
Huntington ave....	" Blagden st.....	"	"	23	"
Kendall st.....	Tremont st. and Shawmut ave.....	"	"	1,101	6-in.
Medford st.....	At Causeway st.....	"	"	30	"
Milton st.....	Spring and Brighton sts.....	"	"	310	4-in.
Portland st.....	South of Sudbury st.....	"	"	3	8-in.
Salem st.....	Opposite No. 125.....	"	"	3	"
Savoy st.....	Washington st. and Harrison ave....	"	"	350	4-in.
State st.....	West side of Broad st.....	"	"	6	8-in.
Washington st.....	Dover and Waltham sts.....	"	"	65	"
" "	At Waltham st.....	"	"	10	"
Bowdoin sq.....	Dakota and Westville sts.....	Dor.	"	79	6-in.
Bowdoin ave.....	Opposite No. 61.....	"	"	5	8-in.
Florida st.....	Edwin and Lonsdale sts.....	"	"	12	"
" "	At Templeton st.....	"	"	14	"
Howard ave.....	Opposite Woodcliff st.....	"	"	4	"
" "	From Quincy st.....	"	"	7	"
Lyons st.....	Callender st. and Oak terrace.....	"	"	223	"
Melbourne st.....	Welles ave. and Centre st.....	"	"	59	"
Mt. Ida road.....	From Potosi st.....	"	"	4	"
Park st.....	At Millet st.....	"	"	4	"
Pierce ave.....	Adams and Newhall sts.....	"	"	75	6-in.
Sanford st.....	At Morton st.....	"	"	46	8-in.
Trull st.....	Opposite Glen st.....	"	"	9	"
West Park st.....	At Kilton st.....	"	"	12	"
	<i>Carried forward</i>			3,159	

Statement of Main Pipe Relaid.— *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			8,159	
Brewster st....	Seventh and Eighth sts.....	So. B.	8-in.	818	6-in.
Emmett st.....	Second and Third sts.....	"	"	332	4-in.
Grimes st.....	Seventh and Eighth sts.....	"	"	419	"
Lark st.....	Eighth and Ninth sts.....	"	"	196	"
Centre st.....	At New Heath st.....	Rox.	"	4	6-in.
" ".....	New Heath and Peuryth sts.....	"	"	189	"
Dimock st.....	At Amory st.....	"	"	2	8-in.
Fellows st.....	At Webber st.....	"	"	26	6-in.
Hollander st.....	Humboldt ave. and Harold st.....	"	"	3	8-in.
Minden st.....	At Gay Head st.....	"	"	15	"
Nawn st.....	Washington st. and Harrison ave...	"	"	443	4-in.
Stafford st.....	Blue Hill ave. and Dennis st.....	"	"	334	"
Webber st.....	Albany st. and Harrison ave.....	"	"	662	4-in.
West Walnut pk....	Across Amory st.....	"	"	22	8-in. & 6-in.
Berry st.....	Across Newburg st.....	W. R.	"	12	12-in.
Boylston ave.....	At south side Stony brook.....	"	"	16	8-in.
" ".....	At north side Stony brook.....	"	"	22	"
Brookside ave.....	Boylston and Green sts.....	"	"	683	6 & 8-in.
Carolina ave.....	At Call st.....	"	"	6	6-in.
Cass st.....	At Oak ave.....	"	"	6	8-in.
Chestnut ave.....	At Mozart st.....	"	"	21	"
" ".....	At Hubbard st.....	"	"	3	"
Clarendon pk.....	From Poplar st.....	"	"	3	"
Glen road.....	At Glade ave.....	"	"	3	"
Montello st.	Colberg and Belgrade aves.....	"	"	5	"
Palne st.....	Canterbury and Walk Hill sts.....	"	"	5	"
Seymour st.....	Brown ave. and Canterbury st.....	"	"	36	6-in.
Spring Park ave....	At Dresden st.....	"	"	5	8-in.
Temple st.....	" Hillcrest st.....	"	"	8	"
Aldie st.....	" Bagnall st.....	Bri.	"	3	"
Chilswick road.....	Opp. Sidlaw road.....	"	"	3	"
" ".....	At north side Commonwealth ave...	"	"	3	"
Commonwealth ave	Opp. Linden st.....	"	"	30	"
Orkney road.....	Ayr and Strathmore roads.....	"	"	12	"
	<i>Carried forward</i>			6,899	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			6,899	
Strathmore road ...	At north side Commonwealth ave...	Brl.	8-in.	6	8-in.
Summit ave.	" south " " " ..	"	"	6	"
Windom st.	Across Cambridge st.	"	"	15	"
Alford st.	Northerly end of Malden bridge...	Chsn.	"	13	"
" "	" " " " ..	"	"	5	"
" "	" " " " ..	"	"	5	"
Arlington ave.....	Near No. 27 (opp. Post hydrant)...	"	"	4	"
Arrow st.....	Lynde and Front sts.....	"	"	96	"
Bunker Hill st.....	At Pearl st.....	"	"	4	"
Cambridge st.....	" Main st.	"	"	38	4 and 8-in.
Cottage st.	Medford and Bunker Hill sts.	"	"	681	4 and 6-in.
Frothingham ave...	Main st. and Rutherford ave.....	"	"	670	4-in.
Monument sq.....	Junction High and Winthrop sts...	"	"	25	8-in.
Mystic ave.....	Dorrance and Sherman sts.....	"	"	219	6-in.
Sherman st.	Off Mystic ave.....	"	"	443	4-in.
Union st.....	Lynde and Front sts.....	"	"	60	8-in.
Curtis st.....	Junction Pope st.....	E. B.	"	10	"
Decatur st.....	Border and Havre sts.	"	"	633	6-in.
Havre st.....	Sumner and Meridian sts.. ..	"	"	1,210	"
Marion st.....	At Eutaw st.....	"	"	4	8-in.
" "	Bennington and Bremen sts.....	"	"	874	6-in.
Orleans st.	Gove and Sumner sts.....	"	"	1,085	"
	Total 8-inch.....			13,005	
Auburn st.....	Near Leverett st.....	C. P.	6-in.	3	"
" "	150 feet from Leverett st.....	"	"	3	"
" "	At Leverett st.....	"	"	12	"
Beverly st.....	Traverse and Causeway sts.....	"	"	3	"
" "	" " " " ..	"	"	5	"
Billerica st.....	Causeway and Minot sts.....	"	"	3	"
Brighton st.....	At Milton st.....	"	"	4	"
Bumstead ct.....	" Boylston st.	"	"	10	"
Camden st.....	" No. 82 and at Tremont st	"	"	16	"
	<i>Carried forward</i>			59	

Statement of Main Pipe Relaid. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			59	
Cazenove st.	Chandler st. and railroad.....	C. P.	6-in.	318	4-in.
Chatham st.	Cor. Merchants row.....	"	"	3	6-in.
" "	100 feet from Merchants row.....	"	"	3	"
Charles River ave..	At Causeway st.....	"	"	160	12-in.
Clarendon st.	Cor. of Commonwealth ave.....	"	"	4	6-in.
Commerce st.	Opposite No. 35.....	"	"	3	"
Corn ct.	From Faneull Hall sq.	"	"	37	4-in.
Creek sq.	" Blackstone st.....	"	"	31	6-in.
Devonshire st.	Opposite No. 70.....	"	"	22	"
Dartmouth st.	Junction Marlboro st.....	"	"	6	"
Eastern ave.	Opposite No. 35.....	"	"	4	"
Franklin st.	At Oliver st.....	"	"	3	"
Fulton st.	Cross and Ferry sts.....	"	"	33	
Garland st.	Shawmut ave. and Washington st..	"	"	330	4-in.
Greenough lane....	Off Commercial st.....	"	"	49	"
Haverhill st.	At Causeway st.....	"	"	3	6-in.
Joy st.	" Myrtle st.....	"	"	3	"
Kneeland st.	Atlantic ave. and Utica st.....	"	"	14	"
Lancaster st.	Near Merrimac st.....	"	"	3	"
Lowell st.	Cor. Causeway st.....	"	"	3	"
Lucas st.	Washington st. and Shawmut ave..	"	"	324	4-in.
Lyman st.	Cor. Prospect st.....	"	"	4	6-in.
May pl.	Oak and Nassau sts.....	"	"	200	4-in.
Marlboro' st.	Berkeley and Clarendon sts.....	"	"	4	6-in.
" "	Arlington and Berkeley sts.....	"	"	4	"
" "	Cor. of Arlington st.....	"	"	3	"
" "	" "	"	"	3	"
" "	West line of Dartmouth st.....	"	"	3	"
" "	East " " "	"	"	3	"
" "	Clarendon and Dartmouth sts.....	"	"	3	"
" "	Cor. of Fairfield st.....	"	"	5	"
" "	West line of Fairfield st.....	"	"	3	"
" "	East " " "	"	"	3	"
" "	Junction " "	"	"	5	"
	<i>Carried forward</i>			1,658	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			1,658	
Medford st.....	At Charlestown st.....	C. P.	6-in.	4	6-in.
“ “.....	“ “.....	“	“	4	“
Mt. Vernon pl.....	From Joy st.....	“	“	250	4-in.
Nashua st.....	Causeway and Minot sts.....	“	“	3	6-in.
Nassau st.....	Harrison ave. and Ash st.....	“	“	813	4-in.
Newbury st.....	Arlington and Berkeley sts.....	“	“	3	6-in.
“ “.....	250 ft. east of Clarendon st.....	“	“	3	“
“ “.....	Corner of Clarendon st.....	“	“	5	“
“ “.....	“ “ “ “.....	“	“	4	“
“ “.....	“ “ Dartmouth st.....	“	“	4	“
“ “.....	West side of Fairfield st.....	“	“	3	“
“ “.....	East “ “ “.....	“	“	3	“
Oneida st.....	At Albany st.....	“	“	60	“
Pinckney st.....	“ Joy st.....	“	“	4	“
Prospect st.....	Lyman and South Margin sts.....	“	“	3	“
Public alley No. 102.....	Marshall st. and Salt lane.....	“	“	210	4-in.
Rollins st.....	Washington st. and Harrison ave....	“	“	3	6-in.
Roosevelt st.....	Camden and Northampton sts.....	“	“	4	“
Seneca st.....	At Albany st.....	“	“	132	“
Shawmut ave.....	Opp. Garland st.....	“	“	4	“
South Margin st.....	Corner of Prospect st.....	“	“	4	“
St. Charles st.....	Chandler st. and railroad.....	“	“	265	4-in.
Sudbury st.....	At Bowker st.....	“	“	5	6-in.
Washington st.....	South line of Union Park st.....	“	“	4	“
“ “.....	At Northampton st.....	“	“	9	“
“ “.....	Opp. Flagg st.....	“	“	2	“
“ “.....	At Northampton st.....	“	“	2	“
Wendell st.....	“ Oliver st.....	“	“	3	“
Whitmore st.....	“ Kneeland st.....	“	“	18	4-in.
Winter pl.....	Off Winter st.....	“	“	126	“
Bellevue st.....	Quincy and Kane sts.....	Dor.	“	16	6-in.
“ “.....	Trull and Quincy sts.....	“	“	6	“
Bird st.....	At Bodwell st.....	“	“	19	“
	<i>Carried forward</i>			3,156	

Statement of Plain Pipe Relaid.—Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			3,156	
Ceylon st.....	At Bird st.....	Dor.	6-in.	18	6-in.
Cottage st.....	From Gayland ave.....	"	"	3	"
Dakota st.....	Opp. Bowdoin sq.....	"	"	4	"
Davenport ave.....	At Columbia road.....	"	"	30	"
Elmo st.....	Opp. Greenwood st.....	"	"	4	"
Glen st.....	At Glendale st.....	"	"	8	"
Gordon st.....	From Dunbar ave.....	"	"	15	"
Hamilton st.....	At Coleman st.....	"	"	4	"
" ".....	" Clarkson st.....	"	"	4	"
" ".....	" Mt. Everett ave.....	"	"	4	"
Johnson terrace.....	From Lauriat ave.....	"	"	12	"
Lauriat st.....	" " ".....	"	"	10	"
Mallett st.....	At Florida st.....	"	"	20	"
Morton st.....	" River st.....	"	"	6	"
Norfolk st.....	" Elmhurst st.....	"	"	4	"
" ".....	Edson st. and Lauriat ave.....	"	"	10	"
" ".....	At Talbot ave.....	"	"	39	"
Oakman st.....	Walnut and Taylor sts.....	"	"	307	4-in.
Quincy st.....	At Magnolia st.....	"	"	19	6-in.
Tucker st.....	From Lauriat ave.....	"	"	30	"
Westville st.....	At Corwin st.....	"	"	3	"
Broadway.....	" O st.....	So. B.	"	9	"
C st.....	" Bowen st.....	"	"	10	"
Eighth st.....	" Lark st.....	"	"	3	"
" ".....	" Grimes st.....	"	"	9	"
Ellery st.....	" Boston st.....	"	"	11	"
" ".....	" " ".....	"	"	30	"
Emerson st.....	M and Fourth sts.....	"	"	347	4-in.
Gold st.....	B and C sts.....	"	"	414	"
" ".....	C and D sts.....	"	"	242	"
Jay st.....	From Fifth st.....	"	"	174	"
K st.....	At Columbia road.....	"	"	21	6-in.
Kemp st.....	Off Dorchester ave.....	"	"	49	"
	<i>Carried forward</i>			5,529	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			5,529	
Leeds st.....	From Woodward st.....	So. Bos.	6-in.	203	4-in.
Loring st.....	Seventh and Eighth sts.....	"	"	297	"
National st.....	Fourth st. and Thomas park.....	"	"	330	"
O st.....	At Broadway.....	"	"	21	6-in.
Sixth st.....	P and Q sts.....	"	"	24	"
Third st.....	At Emerson st.....	"	"	16	"
Woodward st.....	" Leeds st.....	"	"	10	"
Alleghany st.....	" Parker st.....	Rox.	"	5	"
Ambrose st.....	Chadwick and Albany sts.....	"	"	301	4-in.
Binney st.....	Francis and Smyrna sts.....	"	"	2	6-in.
Blue Hill ave.....	At Nazing st.....	"	"	8	"
Cardington st.....	Across Cobden st.....	"	"	15	"
Carmel st.....	At Delle ave.....	"	"	3	"
Centre st.....	" New Heath st.....	"	"	22	"
Crestwood pk.....	Across Townsend st.....	"	"	13	"
Daniel st.....	At Webber st.....	"	"	3	"
Decatur ave.....	" Columbus ave.....	"	"	10	"
Douglass ave.....	" Webber st.....	"	"	5	"
Dunford st.....	Across Cobden st.....	"	"	16	"
Ernst st.....	" Bragdon st.....	"	"	14	"
Harold st.....	At Townsend st.....	"	"	12	"
Harrison ave.....	Webber and Nawn sts.....	"	"	20	"
Hazelwood st.....	At Townsend st.....	"	"	14	"
Huckins st.....	Blue Hill ave. and Dennis st.....	"	"	324	4-in.
Linwood sq.....	From Linwood st.....	"	"	361	"
" st.....	At Linwood sq.....	"	"	3	6-in.
Maple st.....	" Nazing st.....	"	"	3	"
Miles st.....	Across Bragdon st.....	"	"	14	"
Mt. Pleasant ave.....	At Mt. Pleasant terrace.....	"	"	12	"
Orchard st.....	" Orchard Park st.....	"	"	4	4-in.
Phillips st.....	From Ward st. towards Longwood ave.....	"	"	141	3-in.
Reed's ct.....	At Ambrose st.....	"	"	4	4-in.
" ".....	Yeoman and Ambrose sts.....	"	"	276	"
	<i>Carried forward</i>			8,035	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward.....</i>			8,035	
Schiller st.....	Across Minden st.....	Rox.	6 in.	15	6-in.
Townsend st.....	At Harold st.....	"	"	8	"
" ".....	Near Humboldt ave.....	"	"	5	"
Tupelo st.....	At Quincy st.....	"	"	15	"
Washington st....	Arnold and Ball sts.....	"	"	9	"
Wyoming st.....	Humboldt ave. and Wabeno st.....	"	"	10	"
Yeoman st.....	At Reed's ct.....	"	"	3	"
Anson st.....	South st. and railroad.....	W. R.	"	3	"
Argyle st.....	Germania and Cornwall sts.....	"	"	5	"
Congreve st.....	From Centre st.....	"	"	8	"
" ".....	Near South st.....	"	"	19	"
Custer st.....	Woodman and Ballard sts.....	"	"	7	"
Dresden st.....	Boylston st. and Spring Park ave...	"	"	3	"
Germania ave.....	At Brookside ave.....	"	"	4	"
Hubbard st.....	Chestnut ave. and Lamartine st...	"	"	3	"
Marmion st.....	Cornwall and Germania sts.....	"	"	6	"
" ".....	At Cornwall st.....	"	"	10	"
Maxfield st.....	Bellevue and La Grange sts.....	"	"	3	"
Newburg st.....	At Cornell st.....	"	"	3	"
Oak ave.....	" Cass st.....	"	"	3	"
Oak View terrace..	Near Centre st.....	"	"	3	"
Pomfret st.....	Corey and Maple sts.....	"	"	30	"
Street off Keyes st. (near Call st.)....	At Keyes st.....	"	"	11	"
Bayard st.....	" Wertz st.....	Bri.	"	3	"
Callahan pl.....	" Western ave.....	"	"	3	"
Cambridge st.....	" River-st. bridge.....	"	"	3	"
Farrington st.....	Across Linden st.....	"	"	6	"
Gardner st.....	" " ".....	"	"	9	"
Linden st.....	Opposite Pratt st.....	"	"	6	"
" ".....	" " ".....	"	"	11	"
Oakland ave.....	Off Oakland st.....	"	"	3	"
Riverdale st.....	At Western ave.....	"	"	3	"
Seattle st.....	Across Cambridge st.....	"	"	15	"
	<i>Carried forward.....</i>			8,283	

Statement of Main Pipe Relaid. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.	Original Size.
	<i>Brought forward</i>			8,283	
Selkirk road.....	Kilsyth and Sutherland roads.....	Bri.	6 in.	11	6-in.
Sidlaw ".....	At north side Commonwealth ave....	"	"	8	"
Sorrento st.....	Across Cambridge st.....	"	"	15	"
Wadsworth st.....	Opposite No. 12.....	"	"	8	"
Allen pl.....	At Thorndike st.....	Chen.	"	9	4-in.
Baldwin st.....	" Main st.....	"	"	3	6-in.
Brighton st.....	Perkins and Caldwell sts.....	"	"	238	4-in.
" ".....	At Caldwell st.....	"	"	6	6-in.
Cambridge st.....	" Brighton st.....	"	"	10	"
" ".....	" Carter st.....	"	"	10	"
Decatur st.....	" Chauncy pl.....	"	"	4	"
Eden st.....	" Main st.....	"	"	5	"
Chauncy and Fremont places.....	Medford and Decatur sts.....	"	"	423	4-in.
Frothingham ave.....	At Main st.....	"	"	4	6-in.
Furbush ct.....	Main st. and Rutherford ave.....	"	"	270	4-in.
Harvard sq.....	Off Harvard st.....	"	"	532	"
Irving pl.....	At Main st.....	"	"	7	"
Johnson ave.....	Main and Lawrence sts.....	"	"	110	"
Lincoln st.....	At Main st.....	"	"	2	6-in.
Lynde ave.....	Off Main st.....	"	"	10	2-in.
Lyndeboro st.....	Middlesex and Essex sts.....	"	"	359	4-in.
Main st.....	At Cambridge st.....	"	"	12	6-in.
" ".....	" Dorrance st.....	"	"	4	"
Meade st.....	" Main st.....	"	"	9	"
Miller st.....	" " ".....	"	"	10	"
Oak st.....	" " ".....	"	"	5	"
Scott's ct.....	" Medford st.....	"	"	30	4-in.
Sherman sq.....	Off Mystic ave. (north side).....	"	"	14	"
" ".....	" " " (south side).....	"	"	16	"
South Eden st.....	At Main st.....	"	"	5	6-in.
Thorndike st.....	Main st. and Rutherford ave.....	"	"	264	4-in.
Walker st.....	At Main st.....	"	"	8	6-in.
Bremen st.....	" Gove st.....	E. B.	"	9	"
	<i>Carried forward</i>			10,698	

Statement of Main Pipe Relaid. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.	Original size.
	<i>Brought forward</i>			10,698	
Decatur st.	At Border st.	E. B.	6-in.	3	6-in.
Eutaw st.	Opposite No. 70	"	"	4	"
" "	At Brooks st.	"	"	4	"
" "	Opposite No. 36	"	"	4	"
" "	" " 76	"	"	4	"
" "	" " 56	"	"	4	"
" "	" " 108	"	"	4	"
" "	" " 143	"	"	4	"
Gove st.	At Paris st.	"	"	11	"
" "	Orleans and Bremen sts.	"	"	9	"
Lexington st.	West of Putnam st.	"	"	3	"
" "	East of Prescott st.	"	"	3	"
" "	West of " "	"	"	3	"
" "	East of Brooks st.	"	"	10	"
" "	West of Putnam st.	"	"	12	"
" "	At Putnam st.	"	"	4	"
Monmouth st.	Opposite No. 41	"	"	4	"
Paris st.	At Gove st.	"	"	16	"
Princeton st.	Opposite No. 284	"	"	4	"
" "	At Brooks st.	"	"	4	"
" "	Opposite No. 108	"	"	4	"
Saratoga st.	" " 57	"	"	4	"
" "	" " 133	"	"	4	"
" "	" " 139	"	"	4	"
" "	" " 259	"	"	4	"
" "	" " 225	"	"	4	"
" "	" " 327	"	"	4	"
" "	" " 21	"	"	4	"
White st.	" " 79	"	"	4	"
" "	" " 85	"	"	4	"
	Total 6-inch			10,852	
Chifton pl.	At Washington st.	C. P.	4-in.	5	4-in.
	<i>Carried forward</i>			5	

Statement of Main Pipe Relaid.—Concluded.

In what Street.	Between what Streets.	District.	Size.	Length.	Original size.
	<i>Brought forward</i>.....	.....	.....	5	
Alblon pl.	At Main st.	Chen.	4-in.	5	4-in.
Irving pl.	" " "	"	"	3	"
Sherman sq.	Off Mystic ave. (south side).....	"	"	6	"
	Total 4-inch.....	.....	.....	19	
Shirly Gut.....	Point Shirley and Deer Island.....	.....	2-in.	657	2-in.

Statement of Location, Size and Number of Feet of Main Pipe Extended during the Year Ending January 31, 1900.

In what Street.	Between what Streets.	District.	Size.	Length.
Washington st.	Bowdoin and School sts.	Dor.	30-in.	461
Centre st.	South and Beech sts.	W. R.	24-in.	1,401
" "	At Beech st.	"	"	144
South st.	Dudley ave. and Centre st.	"	"	8
" "	Roberts st. and Bradford terrace.....	"	"	739
	Total 24-inch.....	.....	.....	2,753
Washington st.	Kneeland and Boylston sts.	C. P.	20-in.	452
Columbia road.	Glendale and Hancock sts.	Dor.	"	324
Dorchester st.	Third and Fourth sts.	So. B.	"	800
Third st.	Dorchester and Q sts.	"	"	2,205
Centre st.	Beech st. and N.Y., N.H. & H. R.R.	W. R.	"	2,767
" "	N.Y., N.H. & H. R.R. and Spring st.	"	"	1,949
" "	At Beech st.	"	"	10
" "	Over N.Y., N.H. & H. R.R.	"	"	133
	Total 20-inch.....	.....	.....	8,660
Causeway st.	At old Fitchburg depot	C. P.	16-in.	22
Talbot ave.	Washington and Nightingale sts.	Dor.	"	3,905
	<i>Carried forward</i>.....	.....	.....	3,927

Statement of Main Pipe Extended. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			3,927
Columbia road.....	O and P sts.....	So. B.	16-in.	135
“ (contract) I and O sts.....		“	“	2,980
O st.....	At Columbia road.....	“	“	10
Q st.....	Third and Sixth sts.....	“	“	1,081
Third st.....	Dorchester and L sts.....	“	“	28
Beech st.....	At Centre st.....	W. R.	“	19
Corinth st.....	Brandon and Birch sts.....	“	“	105
Dudley ave.....	Brandon st. and N.Y., N.H. & H. R.R..	“	“	146
“ “	At South st.....	“	“	8
North Harvard st.....	“ Spurr st.....	Bri.	“	67
Spurr st.....	North Harvard st. and Western ave...	“	“	344
	Total 16-inch.....			8,795
Atlantic ave.....	Oliver and Pearl sts.....	C. P.	12-in.	816
“ “	At Kneeland st.....	“	“	41
Broad st.....	Milk and State sts.....	“	“	477
Chandler st.....	At Castle sq.....	“	“	110
Devonshire st.....	Spring lane and Milk st.....	“	“	130
Harrison ave.....	Broadway and Seneca st.....	“	“	120
Kneeland st.....	At Atlantic ave.....	“	“	26
Milk st.....	Pearl and Oliver sts.....	“	“	294
Pearl st.....	At Milk st.....	“	“	108
Portland st.....	Sudbury and Charter sts.....	“	“	222
Barry st.....	From Hamilton st.....	Dor.	“	255
Esmond st.....	Harvard and Bradshaw sts.....	“	“	30
Floyd st.....	At Callender st.....	“	“	3
Geneva ave.....	Bowdoin and Everton sts.....	“	“	143
Hamilton st.....	Bowdoin and Stonehurst sts.....	“	“	329
Kilton st.....	From Talbot ave.....	“	“	187
New England ave.....	“ “ “	“	“	48
Normandy st.....	Devon and Stanwood sts.....	“	“	276
Northern ave.....	At Talbot ave.....	“	“	19
Pierce ave.....	Plain and Newhall sts.....	“	“	156
	<i>Carried forward</i>			3,240

Statement of Main Pipe Extended.—Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			3,240
Quincy st.	Mt. Everett and Bellevue sts.	Dor.	12-in.	80
Roseclair st.	From Boston st.	"	"	54
Southern ave.	North side of Talbot ave.	"	"	43
" "	South " " " "	"	"	65
Spencer st.	At Talbot ave.	"	"	30
Tenean st.	Fulton and Freeport sts.	"	"	2,225
Wales st.	From Talbot ave.	"	"	21
Washington st.	Fairmount and Codman sts.	"	"	374
West Selden st.	Morton and Crossman sts.	"	"	162
Boston st.	Ellery st. and Andrew sq.	So. B.	"	51
" "	Rawson st. and railroad bridge	"	"	25
Bullock st.	D and E sts.	"	"	204
" "	C and D sts.	"	"	7
D st.	At Bullock st.	"	"	37
Division st.	Foundry st. and Dorchester ave.	"	"	120
Dorchester ave.	At railroad bridge	"	"	15
Dorchester st.	" Fourth st.	"	"	10
" "	" Third st.	"	"	12
Foundry st.	" Fourth st.	"	"	7
Loring st.	Seventh and Eighth sts.	"	"	4
Q st.	First and Third sts.	"	"	572
Summer-st. extension	A st. and Fort Point channel.	"	"	598
Third st.	P and Q sts.	"	"	23
" "	At L st.	"	"	16
" "	" P st.	"	"	15
Unnamed approach to Summer-st. extension	Summer-st. extension and A st.	"	"	716
Atkinson st.	Swett and unnamed sts.	Rox.	"	323
Charlesgate west.	Over Ipswich st.	"	"	119
Fisher ave.	Estey st. and Parker Hill ave.	"	"	108
Ipswich st.	Charlesgate east and Charlesgate west.	"	"	168
" "	Under Charlesgate west.	"	"	129
" "	New Boylston st. and Charlesgate west,	"	"	1,295
	<i>Carried forward</i>			10,868

Statement of Main Pipe Extended. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			10,868
Ipswich st.	Charlesgate west and the brook	Rox.	12-in.	84
“ “	Across Boylston st.	“	“	55
Jersey “	Queensbury st. and Audubon road....	“	“	302
“ “	Boylston st. and Queensbury st.	“	“	581
“ “	Boylston st. and Brookline ave.	“	“	860
Lansdowne st.	Across Ipswich st.	“	“	25
Rogers ave.	From Huntington ave.	“	“	172
Shirley st.	Clifton st. and Norfolk ave.	“	“	200
“ “	Norfolk and Massachusetts aves.	“	“	424
Unnamed st.	From Atkinson st.	“	“	241
Centre st.	At Congreve st.	W. R.	“	38
La Grange st.	“ Centre st.	“	“	20
Montebello road	Walnut ave. and Washington st.	“	“	536
Poplar st.	Beech st. and Hyde Park Line	“	“	2,088
Spring st.	At Centre st.	“	“	17
Williams st.	Plainfield and Forest Hills sts.	“	“	144
Chester st.	Brighton and Commonwealth aves.	Bri.	“	659
Colonial road.	Across Commonwealth ave.	“	“	184
Commonwealth (south side) ave.	Colonial road and point opp. Wallingford road.	“	“	1,067
Commonwealth (north side) ave.	Colonial road and Chestnut Hill ave.	“	“	1,978
Commonwealth (north side) ave.	Wallingford and Sutherland roads....	“	“	633
Commonwealth (north side) ave.	Warren and Washington sts.	“	“	1,984
Commonwealth (south side) ave.	“ “ “ “	“	“	1,993
Commonwealth (north side) ave.	Washington st. and Colonial road.	“	“	1,067
Commonwealth (south side) ave.	“ “ “ “	“	“	1,147
Kenrick st.	Lake st. and Newton line	“	“	2,519
Summit ave.	At north side Commonwealth ave.	“	“	2
Sutherland road	“ south “ “ “	“	“	17
Wallingford road.	“ north “ “ “	“	“	39
	<i>Carried forward</i>			29,892

Statement of Main Pipe Extended. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			29,892
Chelsea st.	At Saratoga st.....	E. B.	12-in.	9
Orient pl.	" Orient ave.....	"	"	77
Orient ave.....	At Tower and Walley sts.....	"	"	1,671
Saratoga st.....	West of Swift st.....	"	"	13
" "	At Byron st.....	"	"	18
Beacon st.....	" St. Mary st.	Bost. and Brookline	"	15
St. Mary st.....	Beacon and Monmouth sts.....	Brookline.	"	4
Moon Island (contract)	Gate-house and sea-wall.....		"	1,891
	Total 12-inch.....			33,090
Congress st.....	Purchase and High sts.....	C. P.	10-in.	93
" "	At bridge.....	"	"	36
Devonshire st.....	Franklin and Summer sts.....	"	"	270
Oliver st.....	At Atlantic ave.....	"	"	6
Capen st.....	Maxwell and Selden sts.....	Dor.	"	298
Idaho st.....	River and Manchester sts.....	"	"	44
Normandy st.....	From Washington st.....	"	"	27
C st.....	At Bowen st.....	So. B.	"	7
Madison ct.	From Parker st.....	Rox.	"	29
Unnamed st.....	Rear No. 697 Huntington ave.....	"	"	113
Williams st.....	Washington and Call sts.....	"	"	794
Summit ave.....	At north side Commonwealth ave.....	Bri.	"	14
	Total 10-inch.....			1,731
Blagden st.....	At Huntington ave....	C. P.	8-in.	21
Buckingham st.....	" Dartmouth st.....	"	"	10
Congress st.....	Franklin and Milk sts.....	"	"	172
" "	State st. and Exchange pl.....	"	"	200
Huntington ave.	At Blagden st.....	"	"	17
Lincoln st.....	" Tufts st.....	"	"	46
Purchase st.....	Pearl and Congress sts.....	"	"	214
South st.....	Tufts and Essex sts.....	"	"	186
Tufts st.....	Lincoln and South sts.....	"	"	223
	<i>Carried forward</i>			1,089

Statement of Main Pipe Extended. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			1,089
Ballou ave.....	From Lauriat ave.....	Dor.	8-in.	86
Bullard st.....	Bowdoin ave. and Rosseter st.	"	"	112
Bowdoin sq.....	Westville and Dakota sts.....	"	"	326
Elmhurst st.....	Norfolk and Southern aves.....	"	"	533
Faxon st.....	At Washington st.....	"	"	26
Fessenden st.....	From Blue Hill ave.....	"	"	170
Florida st.....	Templeton and Lonsdale sts.....	"	"	161
" "	" " King sts.....	"	"	170
Greenwood st.....	May and York sts.....	"	"	156
Holden st.....	Humphreys st. and Columbia road....	"	"	485
Kerwin st.....	From Talbot ave.....	"	"	56
Lindsey st.....	Waldeck and Greenbrier sts.....	"	"	132
Lorraine st.....	At Devon st.....	"	"	41
Marsh st.....	From Granite ave.....	"	"	1,036
Melbourne st.....	Welles ave. and Centre st.....	"	"	476
Pierce ave.....	Adams and Newhall sts.....	"	"	91
Rosemont st.....	Lonsdale and King sts.....	"	"	52
Stratton st.....	From Blue Hill ave.....	"	"	491
Templeton st.....	Florida st. and Dorchester ave.....	"	"	77
Torrey st.....	Washington and Chipman sts.....	"	"	64
Waldeck st.....	Park st. and Melville ave.....	"	"	189
York st.....	Glenway and Greenwood sts.....	"	"	170
Fellows st.....	At Webber st.....	Rox.	"	5
" "	Hunneman and Webber sts.....	"	"	110
Harrishof st.....	Humboldt ave. and Harold st.....	"	"	395
Hollander st.....	" " " " "	"	"	686
Hutchings st.....	Elm Hill and Humboldt aves.....	"	"	991
Orchard Park st.....	Ambrose and Orchard sts.....	"	"	101
Unnamed st.....	Off Jersey st.....	"	"	50
" "	" Ipswich st.....	"	"	23
" "	" Shirley st.....	"	"	72
Berry st.....	Across Newburg st.....	W. R.	"	33
Cass st.....	Spring st. and Oak ave.....	"	"	420
	<i>Carried forward</i>			9,075

Statement of Main Pipe Extended. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			9,075
Clarendon ave.....	Hillburn st. and Clarendon park.....	W. R.	8-in.	174
“ park.....	From Poplar st.....	“	“	96
Cornell st.....	Kittredge and Poplar sts.....	“	“	339
Fletcher st.....	From Centre st.....	“	“	809
Glade ave.....	“ Glen road.....	“	“	278
Hillcrest st.....	Lorette and Temple sts.....	“	“	256
Houston st.....	Metcalf and Linden sts.....	“	“	321
Metcalf st.....	At Houston st.....	“	“	4
Montello st.....	Colberg and Belgrade aves.....	“	“	91
Paine st.....	Canterbury and Walk Hill sts.....	“	“	330
Powell st.....	At Cass st.....	“	“	20
Rowe st.....	Ashland and Seymour sts.....	“	“	545
“ “.....	Allen st. and Brown ave.....	“	“	50
Seymour st.....	Brown ave. and Canterbury st.....	“	“	179
Temple st.....	At Hillcrest st.....	“	“	14
Colonial road.....	Across Commonwealth ave.....	Bri.	“	13
Montfern ave.....	Washington and Faneull sts.....	“	“	835
Orkney road.....	Ayr and Sutherland roads.....	“	“	398
“ “.....	“ “ Strathmore roads.....	“	“	134
Strathmore road.....	Chiswick and Sutherland roads.....	“	“	12
Snmmitt ave.....	At south side Commonwealth ave.....	“	“	84
Unnamed st., off Foster st.....	From Foster st.....	“	“	278
Unnamed st., nearly opposite Union st...	“ south side Commonwealth ave...	“	“	13
Wirt st.....	Across Washington st.....	“	“	51
Alford st.....	Northerly end of Malden bridge... ..	Chan.	“	12
Arrow st.....	Lynde and Front sts.....	“	“	36
Union st.....	“ “ “ “.....	“	“	39
Bayswater st.....	At Austin ave.....	E. B.	“	163
Orleans st.....	Gove and Sumner sts.....	“	“	22
St. Mary st.....	Beacon and Monmouth sts.. ..	Brookline.	“	398
	Total 8-inch.....			15,169

Statement of Main Pipe Extended. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
Albemarle st.....	From St. Botolph st.....	C. P.	6-in.	18
Belvidere st.....	Dalton and Falmouth sts.....	"	"	225
Division st.	At Northampton st.....	"	"	181
Hawley st.....	Milk and Franklin sts.....	"	"	214
" "	" " " "	"	"	260
Smith ave.....	At Kendall st.....	"	"	21
Tufts st.....	Kingston and Lincoln sts.....	"	"	118
Alpha road.....	From Waldeck.....	Dor.	"	240
Annabel st.	Columbia road and Sumner st.	"	"	180
Ashmont st.....	Newhall st. and Neponset ave.	"	"	22
Bellevue st.	Quincy and Kane sts.....	"	"	139
" "	" and Trull sts.	"	"	62
" "	From Hamilton st.....	"	"	253
Birch st.....	Lauriat ave. and Oak terrace.....	"	"	132
Brent st.....	From Melbourne st.....	"	"	4
Brunswick st.....	Columbia road and Blue Hill ave.....	"	"	260
Callender st.....	Don and Carlos sts.....	"	"	376
Carlos st.....	At Callender st.....	"	"	32
Chipman st.....	Torrey and Norfolk sts.....	"	"	84
Claybourne st.....	Washington and Greenbrier sts.	"	"	36
Clement pk.....	Clement and Centre sts.....	"	"	435
Columbia road.....	Glendale and Hancock sts.....	"	"	300
Corwin st.....	Westville and Arcadia sts.....	"	"	120
Dakota st.....	Greenbrier st. and Bowdoin sq.....	"	"	291
Danube st.....	Brookford and Dewey sts.....	"	"	94
Denver st.....	From Edwin st.	"	"	30
Don st.....	At Callender st.....	"	"	45
Dunbar ave.....	Washington and Gordon sts.....	"	"	127
Dyer st.....	From Capen st.....	"	"	29
Edison Green.....	Dorchester ave. and Pond st.....	"	"	50
Edwin st.....	Near Florida st.....	"	"	72
Elder st.....	Humphrey and Eastman sts.....	"	"	259
Englewood st.....	From Adams st.....	"	"	72
	<i>Carried forward</i>			4,781

Statement of Main Pipe Extended. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			4,781
Everton st.....	Olney st. and Geneva ave.....	Dor.	8-in.	166
Gayland ave.....	From Cottage st.....	"	"	224
Gibson st.....	Dorchester ave. and Neponset.....	"	"	460
Harwood st.....	From Willowwood st.....	"	"	100
Helen st.....	From Talbot ave.....	"	"	44
Hooper ave.....	At Half Moon st.....	"	"	15
Joseph st.....	From Melbourne st.....	"	"	4
Kingsdale st.....	" Talbot ave.....	"	"	21
Lafayette st.....	" Julian st.....	"	"	39
Lorraine st.....	" Stanwood st.....	"	"	107
Massasoit st.....	At Talbot ave.....	"	"	29
Mattapan st.....	From Tileston st.....	"	"	100
Maxwell st.....	Capen and Nelson sts.....	"	"	185
Millett st.....	Harvard and Athelwold sts.....	"	"	340
" ".....	North of Talbot ave.....	"	"	150
" ".....	South of " ".....	"	"	92
" ".....	Park and Athelwold sts.....	"	"	486
Montello st.....	Robinson and Arcadia sts.....	"	"	98
Northam pk.....	From Dorchester ave.....	"	"	277
Nottingham st.....	Bowdoin ave. and Bullard st.....	"	"	185
Oak terrace.....	Lyons and Birch sts.....	"	"	80
Pinckney road.....	From Columbia road.....	"	"	236
Proposed st.....	Bernard and Helen sts.....	"	"	41
Proposed st., off West Selden.....	Near Crossman st.....	"	"	54
Ridge road.....	From Park st.....	"	"	100
Rollins ct.....	From Dennis st.....	"	"	173
Stanley st.....	Quincy and Bellevue sts.....	"	"	80
Stratford st.....	Greenbrier and Waldeck sts.....	"	"	262
Tremlett pk.....	From Waldeck st.....	"	"	13
Wales pl.....	Puritan ave. and railroad.....	"	"	336
Warner st.....	From West Park st.....	"	"	62
Westcott st.....	" Talbot ave.....	"	"	103
Wheelock ave.....	" Columbia road.....	"	"	12
	<i>Carried forward</i>			9,400

Statement of Main Pipe Extended. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			9,400
Whitby terrace.....	From Pleasant st.....	Dor.	6-in.	67
Whitfield st.....	At Talbot ave.....	"	"	33
Woodcliff st.....	From Howard ave.....	"	"	190
Acadia st.....	First and Second sts.....	S. B.	"	301
Beckett st.....	From Van Winkle st.....	"	"	17
Broadway (L. S.).....	N and O sts.....	"	"	108
" (H. S.).....	" " ".....	"	"	123
".....	P and Q sts.....	"	"	22
".....	" " ".....	"	"	257
Dorchester st.....	Third and Fourth sts.....	"	"	20
Gold st.....	C and D sts.....	"	"	75
Third st.....	P and Q sts.....	"	"	182
Aberdeen st.....	From Beacon st.....	Rox.	"	436
Beacon st.....	Audubon Circle and St. Mary sts.....	"	"	400
Binney st.....	Francis and Smyrna sts.....	"	"	314
Carmel st.....	Tremont st. and Delle ave.....	"	"	68
Decatur ave.....	At Columbus ave.....	"	"	5
Delle ave.....	Burney and Carmel sts.....	"	"	206
Dudley st.....	Blue Hill ave. and Magazine st.....	"	"	230
Fellows st.....	Hunneman and Webber sts.....	"	"	6
Magazine st.....	From Dudley st.....	"	"	33
McCarthy pl.....	" Tremont st.....	"	"	268
Mt. Pleasant terrace..	At Mt. Pleasant ave.....	"	"	166
Nazing st.....	Blue Hill ave. and Maple st.....	"	"	735
Phillips st.....	Longwood ave. and Ward st.....	"	"	122
Rogers ave.....	From Huntington ave.....	"	"	45
Vine st.....	Near Dudley st.....	"	"	12
Wyoming st.....	Humboldt ave. and Wabeno st.....	"	"	222
Anson st.....	Smith st. and railroad.....	W. R.	"	36
Argyle st.....	Germania and Cornwall sts.....	"	"	262
Berry st.....	Cornell and Brooks sts.....	"	"	135
Congreve st.....	From South st.....	"	"	221
" ".....	" Centre st.....	"	"	322
	<i>Carried forward</i>			15,044

Statement of Main Pipe Extended. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			15,044
Cornell st.....	Across Newburg st.....	W. R.	6-in.	46
Dresden st.....	Boylston st. and Spring Park ave.....	"	"	180
Hubbard st.....	Chestnut ave. and Lamartine st.....	"	"	135
Linden st.....	Houston and Penfield sts.....	"	"	225
Marmion st.....	Cornwall and Germania sts.....	"	"	442
Maxfield st.....	Bellevue and La Grange sts.....	"	"	60
Metcalf st.....	At Houston st.....	"	"	29
Seymour st.....	Rowe st. and Brown ave.....	"	"	492
Washington st.....	At Cornwall st.....	"	"	216
Bagnall st.....	Aldie and Holton sts.....	Brighton,	"	155
Brackett st.....	Washington and Faneuil sts.....	"	"	636
Cambridge st.....	At River-st. bridge.....	"	"	8
Cleveland ave.....	From Everett st.....	"	"	212
Cummings road.....	South side of Commonwealth ave.....	"	"	12
Empire st.....	North Harvard and Sorrento sts.....	"	"	402
Mackin st.....	Waverly st. and Weston ave.....	"	"	331
Oakland ave.....	Off Oakland st.....	"	"	38
Proposed st.....	At Weston ave.....	"	"	4
Selkirk road.....	Kilsyth and Sutherland roads.....	"	"	175
Sidlaw road.....	At north side Commonwealth ave.....	"	"	30
Union st.....	" " " ".....	"	"	13
Unnamed st. (200 ft. west of Warren).....	" " " ".....	"	"	13
Unnamed st. (200 ft. west of Summit ave.).....	At south side Commonwealth ave.	"	"	13
Unnamed st. (off north side Com'wealth ave.).....	Colonial and Wallingford roads.....	"	"	13
Weitz st.....	From Bayard st.....	"	"	186
Brighton st.....	Perkins and Caldwell sts.....	Chsn.	"	198
Chs'town bridge (new)	Northerly end at Chambers st.....	"	"	183
Dexter st.....	At Alford st.....	"	"	15
Johnson ave.....	Main and Lawrence sts.....	"	"	151
Bayswater st.....	At Austin st.....	E. B.	"	150
Gove st.....	Orleans and Bremen sts.....	"	"	118
Marion st.....	Bennington and Bremen sts.....	"	"	198
	<i>Carried forward</i>			20,068

Statement of Main Pipe Extended. — Concluded.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			20,068
Morris st.....	Off Marion st.....	E. B.	6-in.	223
Beacon st.....	At St. Mary st.....	Boston and Brookline.	"	19
	Total 6-in.....			<u>20,310</u>
Boston st.....	Rawson st. and R.R. bridge.....	So. Boston.	4-in.	50

Statement of Private Mains Laid and Abandoned during the Year ending January 31, 1900.

For whom.	Where.	Size.	Length.
Insane Hospital Trustees.....	^{LAI D.} Pierce Farm, Walk Hill st., West Rox....	6-in.	24 ft.
Insane Hospital Trustees.....	^{ABANDONED.} Pierce Farm, Walk Hill st., West Rox....	6-in.	8 ft.

Statement of Main Pipe Raised, Lowered and Moved Laterally.

In what Street.	Between what Streets.	District.	Size.	Length.	Raised, Lowered or Moved.
Swett st.....	Ellery st. and railroad.....	So. B.	30-in.	230	Lowered.
Mystic wharf.....	Under Chelsea bridge.....	Chn.	"	20	"
Main st.....	Alford st. and Railroad crossing.....	"	24-in.	386	Moved.
Mystic wharf.....	Under Chelsea bridge.....	"	"	3	Lowered.
Boston st.....	Near Railroad bridge.....	So. B.	20-in.	119	"
Causeway st.....	At old Fitchburg depot.....	C. P.	16-in.	140	Moved.
Washington st.....	Approaching B. & A. Railroad bridge (from south).....	"	"	125	Raised.
Boston st.....	Near Railroad bridge.....	So. B.	"	119	Lowered.
Amory st.....	Bragdon st. and West Walnut pk.....	Rox.	"	273	"
Main st.....	Frothingham ave. and Thorndike st....	Chn.	"	1,900	Moved.
	<i>Carried forward</i>			<u>3,315</u>	

**Statement of Main Pipe Raised, Lowered and Moved
Laterally. — Concluded.**

In what Street.	Between what Streets.	District.	Size.	Length.	Raised, Lowered or Moved.
	<i>Brought forward</i>			3,315	
Albany st.	Way and Oswego sts.....	C. P.	12-in.	233	Raised.
Castle st.	Village and Albion sts.....	"	"	200	"
Charlestown st.	At Causeway st.....	"	"	185	"
Commercial st.	At Greenough lane.....	"	"	170	Moved.
"	At Clark st.	"	"	30	"
Castle st.	At Washington st.....	"	"	65	Raised.
Endicott st.	At Causeway st.....	"	"	165	"
Harrison ave.	Seneca st. and Railroad bridge.....	"	"	200	"
"	Broadway and Seneca st.....	"	"	155	"
Lehigh st.	From Albany st.	"	"	24	"
Motte st.	At Washington st.....	"	"	50	"
Motte st.	Washington st. and Harrison ave.	"	"	125	"
Way st.	At Albany st.....	"	"	36	"
*Kilton st.	West Park and Harvard sts.....	Dor.	"	357	Moved.
Boston st.	Near Railroad bridge.....	So. B.	"	111	Lowered.
Boston st.	Rawson st. and Railroad bridge.....	"	"	265	Raised.
Boston st.	At Andrews sq.....	"	"	90	"
Amory st.	Bragdon and Atherton sts.....	Rox.	"	318	Lowered.
Chandler st.	At Castle sq.....	C. P.	6-in.	130	Raised.
Seneca st.	At Harrison ave.....	"	"	50	"
Village st.	At Castle st.....	"	"	50	"
Callender st.	Birch and Lyons sts.....	Dor.	"	841	"
*Lauriat st.	At Lauriat ave.....	"	"	30	Lowered.
*Edwin st.	Dorchester ave. and Denver st.....	"	"	235	"
*Quincy st.	Tupelo and Warren st.....	Rox.	"	20	Raised.
Zeigler st.	Warren and Washington sts.....	"	"	300	Lowered.
*Carolina place....	Off Carolina ave.....	W. Rox.	"	65	Raised.
*Pomfret st.	Corey and Maple sts.....	"	"	250	Lowered.
*Pomfret st.	" " " "	"	"	300	Raised.
Mason st.	Bow and Front sts.....	Chn.	4-in.	150	Moved.
	Total number of feet.....			8,515	

Statement of Main Pipe Abandoned.

In what Street.	Between what Streets.	District.	Size.	Length.
Heath st.....	Bickford ave. and Heath pl.....	Rox.	36-in.	12
Tremont st.....	Opposite Common st.....	C. P.	30-in.	12
Boylston st.....	At Washington st.....	"	"	8
Cambridge st.....	Junction Main st.....	Chsn.	"	3
Fisher ave.....	At Reservoir.....	Brookline	"	36
	Total 30-inch.....			59
Fisher ave.....	At Hayden st.....	Rox.	24-in.	12
New Heath st.....	Near Centre st.....	"	"	10
South st.....	Roberts st. and Bradford terrace.....	"	"	5
Main st.....	Alford st. and railroad crossing.....	Chsn.	"	6
" ".....	Opposite No. 646.....	"	"	8
	Total 24-inch.....			41
Columbus ave.....	At B. & A. railroad bridge.....	C. P.	20-in.	119
" ".....	" " " ".....	"	"	181
Andrews sq.....	" Dorchester ave.....	So. B.	"	9
Dorchester st.....	" " " ".....	"	"	24
Cambridge st.....	Junction Main st.....	Chsn.	"	3
Harvard ave.....	At Columbia st. (Brookline).....	Brookline	"	10
	Total 20-inch.....			296
Park st.....	Tremont and Beacon sts.....	C. P.	16-in.	4
Pearl st.....	At High st.....	"	"	4
Washington st.....	On B. & A. railroad bridge.....	"	"	36
Blue Hill ave.....	At Stratton st.....	Dor.	"	4
Columbia road.....	Opposite Cushing ave.....	"	"	15
Boylston st.....	At Ipswich st.....	Rox.	"	3
Shawmut ave.....	" Ball st.....	"	"	3
Chestnut Hill ave. . .	" North side Commonwealth ave.....	Bri.	"	3
Essex st.....	" " " " ".....	"	"	5
Alford st.....	Northerly end of Malden bridge.....	Chsn.	"	4
Main st.....	Opposite No. 29.....	"	"	12
" ".....	At Monument ave.....	"	"	13
	Carried forward.....			105

Statement of Main Pipe Abandoned — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward.....</i>			105
Main st.....	Opposite No. 76.....	Chsn.	16-in.	12
" ".....	Opposite No. 82.....	"	"	12
" ".....	At Pleasant st.....	"	"	12
" ".....	Opposite No. 102.....	"	"	12
" ".....	" No. 108.....	"	"	12
" ".....	" No. 112.....	"	"	12
" ".....	Junction Union st.....	"	"	12
" ".....	Opposite No. 120.....	"	"	12
" ".....	" Monument ave.....	"	"	5
" ".....	" No. 162.....	"	"	12
" ".....	At Austin st.....	"	"	10
" ".....	" Frothingham st.....	"	"	8
" ".....	" Miller st.....	"	"	12
" ".....	" Allen st.....	"	"	8
" ".....	" Middlesex st.....	"	"	8
" ".....	Opposite No. 268.....	"	"	12
" ".....	" No. 278.....	"	"	12
" ".....	" No. 284.....	"	"	12
" ".....	At Phipps st.....	"	"	12
" ".....	Opposite Meade st.....	"	"	7
" ".....	" Irving pl.....	"	"	5
Middlesex st.....	At Main st.....	"	"	4
Monument sq.....	Junction High and Winthrop sts.....	"	"	12
Condor st.....	Opposite pumping station.....	E. B.	"	32
	Total 16-inch.....			372
Albany st.....	Rochester and Genesee st.....	C. P.	12-in.	4
" ".....	At Genesee st.....	"	"	3
" ".....	Way and Oswego sts.....	"	"	50
" ".....	At Kneeland st.....	"	"	8
Atlantic ave.....	Dewey sq. and Oliver st.....	"	"	1,281
" ".....	Essex st. and Dewey sq.....	"	"	436
Beacon st.....	At Joy st.....	"	"	3
	<i>Carried forward.....</i>			1,783

Statement of Main Pipe Abandoned.— Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			1,785
Beacon st.	Opposite Joy st.	C. P.	12-in.	8
“ “	Mt. Vernon and Bowdoin sts.	“	“	155
“ “	Opposite No. 21.	“	“	8
Berkeley st.	At Chandler st.	“	“	8
Blackstone st.	Hanover and North sts.	“	“	463
Boylston st.	Opposite Arlington st.	“	“	4
Broad st.	Junction of India st.	“	“	9
Castle st.	Village and Albion sts.	“	“	4
Causeway st.	At Portland st.	“	“	8
“ “	“ Canal st.	“	“	5
“ “	Prince and Medford sts.	“	“	500
Charles-river ave.	At Causeway st.	“	“	160
Charlestown st.	“ Traverse st.	“	“	3
“ “	“ Causeway st.	“	“	30
“ “	Thacher and Causeway sts.	“	“	43
Columbus ave.	At B. and A. Railroad bridge.	“	“	119
“ “	“ “ “ “	“	“	19
“ “	“ “ “ “	“	“	120
Commercial st.	Opposite Greenough lane.	“	“	3
Dover st.	At Washington st.	“	“	16
Endicott st.	“ Thacher st.	“	“	4
“ “	“ Causeway st.	“	“	36
Federal st.	“ Milton pl.	“	“	4
Harrison ave.	“ Massachusetts ave.	“	“	6
Harvard st.	“ Harrison ave.	“	“	5
India sq.	“ Broad st.	“	“	5
Joy st.	Junction Mt. Vernon st.	“	“	4
Lehigh st.	From Albany st.	“	“	90
“ “	125 feet from Albany st.	“	“	4
Leverett st.	Opposite Charles st.	“	“	4
“ “	200 feet from Causeway st.	“	“	8
“ “	Minot and Charles sts.	“	“	837
Lynde st.	Cambridge and Green sts.	“	“	9
	<i>Carried forward</i>			4,471

Statement of Main Pipe Abandoned. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward.....</i>			4,471
Motte st.	At Washington st.	C. P.	12-in.	18
" "	Washington st. and Harrison ave.....	"	"	50
Mt. Vernon st.	West Cedar st. and Loulsburg sq.	"	"	7
" "	At Loulsburg sq.....	"	"	4
Myrtle st.	" Joy st.	"	"	4
Northampton st.	" Washington st.	"	"	8
" "	" Division st.	"	"	5
Prince st.	Opposite Thacher st.....	"	"	3
South st.	Near Utica st.	"	"	3
" "	South of Kneeland st.	"	"	4
Summer st.	West side of Dewew sq.	"	"	6
" "	At Dewey sq.	"	"	48
Traverse st.	" Charlestown st.....	"	"	3
" "	" " "	"	"	3
Tremont st.	North-east corner Dover st.....	"	"	9
" "	At Kendall st.....	"	"	3
Washington st.....	On B. and A. railroad bridge.....	"	"	115
Way st.	At Albany st.	"	"	70
Adams st.....	" Medway st.....	Dorchester	"	4
" "	" Richmond st.....	"	"	4
Bernard st.....	Opposite Lauriat ave.....	"	"	12
Columbia road	Junction Hancock st.	"	"	6
" "	West of Davenport ave.....	"	"	4
Hamilton st.....	North of Bowdoin st.....	"	"	4
" "	At Coleman st.	"	"	4
" "	North of Coleman st.....	"	"	3
" "	At Clarkson st.....	"	"	4
" "	North of Clarkson st.....	"	"	3
" "	South of Barry st.....	"	"	4
" "	Columbia road and Mt. Everett ave....	"	"	3
" "	At Mt. Everett ave.....	"	"	4
" "	Mt. Everett ave. and Bellevue st.....	"	"	4
Hancock st.	At Trull st.	"	"	14
	<i>Carried forward.....</i>			4,911

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			4,911
Harvard st.....	At Millett st.....	Dorchester	12-in.	4
Lauriat ave.....	Norfolk and Tucker sts.....	"	"	653
Lonsdale st.....	At Florida st.....	"	"	12
River st.....	" Morton st.....	"	"	10
" "	" " " (M. W. W. connection)...	"	"	7
Robinson st.....	" Arcadia st.....	"	"	3
Southern ave.....	" Elmhurst st.....	"	"	3
Washington st.....	Columbia road and Blue Hill ave.....	"	"	12
" "	At Lynnville terrace.....	"	"	11
Westville st.....	" Bowdoin sq.....	"	"	5
Boston st.....	" Andrews sq.....	So. Boston.	"	60
Columbia road.....	" O st.....	"	"	10
D st.....	" Bowen st.....	"	"	12
Dorchester st.....	" East Third st.....	"	"	12
" "	" West Third st.....	"	"	4
Dorchester ave.....	" Powers st.....	"	"	10
" "	" Powers st.....	"	"	6
" "	" Railroad bridge.....	"	"	72
First st.....	" Acadia st.....	"	"	14
Fourth st.....	" Emerson st.....	"	"	7
Foundry st.....	" Fourth st.....	"	"	13
L st.....	At Emerson st.....	"	"	8
" "	" Columbia road.....	"	"	206
Seventh st.....	" At Grimes st.....	"	"	5
Swett st.....	Near Ellery st.....	"	"	180
Albany st.....	At Webber st.....	Roxbury.	"	3
" "	" Ambrose st.....	"	"	3
Amory st.....	" Dimock st.....	"	"	6
" "	Bragdon st. and West Walnut pk..	"	"	3
Atkinson st.....	Swett st. and unnamed st.....	"	"	3
Audubon road.....	At Queensbury st.....	"	"	3
" "	" Jersey st.....	"	"	3
Beacon st.....	" Aberdeen st.....	"	"	3
	<i>Carried forward</i>			6,227

Statement of Main Pipe Abandoned. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			6,227
Blue Hill ave.....	Opposite Huckins st.....	Roxbury.	12-in.	12
“ “ “.....	At Quincy st.....	“	“	8
Boylston st.....	“ Audubon road.....	“	“	3
Brookline ave.....	“ Jersey st.....	“	“	3
Centre st.....	Opposite No. 358.....	“	“	6
Charlesgate west.....	Over Ipswich st.....	“	“	96
Dearborn st.....	At Ambrose st.....	“	“	3
Fisher ave.....	Estey st. and Parker Hill ave.....	“	“	3
Heath st.....	Near Day st.....	“	“	8
Humboldt ave.....	At Hutchings st.....	“	“	6
“ “.....	“ Wyoming st.....	“	“	3
“ “.....	Opposite Harrishof st.....	“	“	3
“ “.....	At Townsend st.....	“	“	14
Hunneman st.....	“ Fellows st.....	“	“	3
Ipswich st.....	“ Boylston st.....	“	“	12
Jersey st.....	Boylston and Queensbury sts.....	“	“	8
Parker st.....	At Madison ct.....	“	“	6
Tremont st.....	“ Vernon st.....	“	“	3
“ “.....	“ McCarthy pl.....	“	“	3
Walnut ave.....	“ Dennison st.....	“	“	4
Warren st.....	“ Quincy st.....	“	“	14
Washington st.....	“ Ball st.....	“	“	15
“ “.....	“ Hunneman st.....	“	“	3
“ “.....	“ Nawn st.....	“	“	3
Amory st.....	Atherton and School sts.....	W. R.	“	3
Beech st.....	At Poplar st.....	“	“	3
“ “.....	“ Centre st.....	“	“	10
Berry st.....	Across Newburg st.....	“	“	5
Birch st.....	At Corinth st.....	“	“	7
Boylston st.....	“ Brookside ave.....	“	“	3
Call st.....	“ Carolina ave.....	“	“	3
“ “.....	“ Williams st.....	“	“	14
Canterbury st.....	“ Seymour st.....	“	“	3
	<i>Carried forward</i>			6,520

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			6,520
Centre st.....	At Congreve st.....	W. R.	12-in.	8
“ “	“ Beech st.....	“	“	4
“ “	“ Spring st.....	“	“	3
“ “	“ Beech st.....	“	“	15
“ “	Over N. Y., N. H. & H. R.R. bridge....	“	“	180
Keyes st.	At Lee st.....	“	“	37
La Grange st.....	“ Centre st.....	“	“	3
Montebello road.....	“ Walnut ave. and Washington st....	“	“	10
Newburg st.....	“ Berry st.....	“	“	5
Pond st.....	“ Moreland pl.....	“	“	5
Spring st.....	“ Centre st.....	“	“	3
Washington st.....	“ Cornwall st.....	“	“	10
Cambridge st.....	“ Windom st.....	Bri.	“	3
“ “	“ Seattle st.....	“	“	3
“ “	“ Sorrento st.....	“	“	3
“ “	Opposite gas-house.....	“	“	11
“ “	“ “	“	“	30
“ “	At Saunders st.....	“	“	3
“ “	“ Rodney st.....	“	“	3
“ “	“ Sparhawk st.....	“	“	3
Commonwealth ave...	“ Chester st.....	“	“	4
Everett st.....	“ Western ave.....	“	“	3
“ “	“ Cleveland ave.....	“	“	3
“ “	“ Braintree st.....	“	“	6
Faneuil st.....	“ Fairbanks st.....	“	“	25
“ “	“ “	“	“	6
“ “	“ Brackett st	“	“	3
“ “	“ Fairbanks st.....	“	“	3
“ “	“ Montfern ave.....	“	“	3
Foster st.....	“ unnamed st.....	“	“	3
Nonantum st.....	“ Washington st.....	“	“	13
North Harvard st.....	“ Empire st.....	“	“	3
“ “ “	“ Spurr st.....	“	“	57
	<i>Carried forward</i>			6,939

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward.....</i>			6,989
Oak sq.....	Washington and Faneuil sts.....	Brl.	12-in.	8
Sutherland road.....	At Orkney road.....	"	"	3
Warren st.....	Across Commonwealth ave.....	"	"	16
Washington st.....	At Crescent ave.....	"	"	4
" ".....	Across Commonwealth ave.....	"	"	30
" ".....	At Nonantum st.....	"	"	6
" ".....	" Brackett st.....	"	"	3
" ".....	" Montfern ave.....	"	"	3
Western ave.....	" Spurr st.....	"	"	14
" ".....	Spurr and Everett sts.....	"	"	1,085
" ".....	At Spurr st.....	"	"	14
Bennington st.....	Opposite No. 17.....	E. B.	"	3
" ".....	" " 43.....	"	"	4
" ".....	300 ft. east of Porter st.....	"	"	5
" ".....	Near corner of London st.....	"	"	5
" ".....	620 ft. east of Porter st.....	"	"	3
" ".....	West side of Marion st.....	"	"	3
Chelsea st.....	Opposite No. 75.....	"	"	4
" ".....	" " 143.....	"	"	4
" ".....	At bridge.....	"	"	27
" ".....	" Saratoga st.....	"	"	9
" ".....	Junction Marion st.....	"	"	4
Condor st.....	Opposite Pumping Station.....	"	"	125
Maverick st.....	At Orleans st.....	"	"	5
Meridian st.....	" Havre st.....	"	"	3
" ".....	North of Havre st.....	"	"	3
Orient pl.....	At Orient ave.....	"	"	2
Saratoga st.....	" Byron st.....	"	"	8
" ".....	West of Swift st.....	"	"	8
Sumner st.....	East of London st.....	"	"	3
Walley st.....	North of Leyden st.....	"	"	4
White st.....	Opposite No. 68.....	"	"	6
" ".....	" " 29.....	"	"	5
	Total 12-inch.....			<u>8,368</u>

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
Compton st.....	At Tremont st.....	C. P.	10-in.	6
Dover st.....	" Harrison ave.....	"	"	10
Harrishof st.....	Across Walnut ave.....	Rox.	"	13
Auburn st.....	At Bunker Hill st.....	Chen.	"	4
" ".....	" Main st.....	"	"	2
Middlesex st.....	" Main st.....	"	"	2
Monument sq.....	Junction High and Winthrop sts.....	"	"	4
Pearl st.....	At Bartlett st.....	"	"	6
Saratoga st.....	" Bennington st.	E. B.	"	3
	Total 10-inch.....			50
Berkeley st.....	Cor. of Marlboro' st.....	C. P.	8-in.	4
Boylston st.....	At Bumstead ct.....	"	"	38
Derne st.....	Hancock and Bowdoin sts.....	"	"	176
Harrison ave.....	At Harvard st.....	"	"	33
" ".....	" Kneeland st.....	"	"	12
Huntington ave.....	" Blagden st.....	"	"	23
Merchants row.....	Faneuil Hall sq. and Chatham st.....	"	"	18
Portland st.....	South of Sudbury st.....	"	"	3
Salem st.....	Opposite No. 125.....	"	"	3
Somerset st.....	Howard st. and Ashburton pl.....	"	"	265
State st.....	West side of Broad st.....	"	"	6
Washington st.....	Dover and Waltham sts.....	"	"	65
" ".....	At Waltham st.....	"	"	10
" ".....	Waltham and Rollins.....	"	"	139
Essex st.....	At Atlantic ave.....	"	"	11
Bowdoin ave.....	Opposite No. 61.....	Dor.	"	5
Florida st.....	Edwin and Lonsdale sts.....	"	"	12
" ".....	At Templeton st.....	"	"	14
Howard ave.....	Opposite Woodcliff st.....	"	"	4
" ".....	From Quincy st.....	"	"	4
Kilton st.....	West Park and Harvard sts.....	"	"	284
Lyons st.....	Callender st. and Oak terrace.....	"	"	223
Melbourne st.....	Welles ave. and Centre st.....	"	"	59
	Carried forward.....			1,391

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			1,391
Mt. Ida road.....	From Potosi st.....	Dor.	8-in.	4
Park st.....	At Millet st.....	"	"	4
Sanford st.....	" Morton st.....	"	"	40
Trull st.....	Opposite Glen st.....	"	"	9
West Park st.....	At Kilton st.....	"	"	12
Q st.....	Broadway and Fifth st.....	S. B.	"	244
Sixth st.....	At Parkway.....	"	"	15
Dimock st.....	" Amory st.....	Rox.	"	2
Hollander st.....	Humboldt ave. and Harold sts.....	"	"	3
Minden st.....	At Gay Head st.....	"	"	18
West Walnut pk.....	Across Amory st.....	"	"	21
Boylston ave.....	At south side Stony brook.....	W. R.	"	14
" ".....	" north " " ".....	"	"	21
Brookside ave.....	Boylston and Green sts.....	"	"	576
Cass st.....	At Oak ave.....	"	"	6
Chestnut ave.....	" Mozart st.....	"	"	18
" ".....	" Hubbard st.....	"	"	3
Clarendon pk.....	From Poplar st.....	"	"	3
Glen road.....	At Glade ave.....	"	"	3
Montello st.....	Colberg and Belgrade aves.....	"	"	5
Paine st.....	Canterbury and Walk Hill sts.....	"	"	5
Spring Park ave.....	At Dresden st.....	"	"	5
Temple st.....	" Hillcrest st.....	"	"	8
Aldie st.....	" Bagnall st.....	Bri.	"	3
Chiswick road.....	Oposite Sidlaw road... ..	"	"	3
" ".....	At north side Commonwealth ave.....	"	"	21
Commonwealth ave... ..	Opposite Linden st.....	"	"	25
Orkney road.....	Ayr and Strathmore roads.....	"	"	12
Strathmore road.....	At north side Commonwealth ave.....	"	"	6
Summit ave.....	" south " " ".....	"	"	6
Windom st.....	Across Cambridge st.....	"	"	13
Alford st.....	Northerly end of Malden bridge.....	Chen.	"	13
" ".....	" " " " ".....	"	"	5
	<i>Carried forward</i>			2,532

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			2,532
Alford st	Northerly end of Malden bridge.....	Chsn.	8-in.	5
Arlington ave.....	Near No. 27 (opposite post hydrant)...	"	"	4
Arrow st.....	Lynde and Front st.....	"	"	96
Bunker Hill st.....	At Pearl st.....	"	"	4
Cambridge st.....	" Main st.....	"	"	20
Monument sq.....	Junction High and Winthrop sts.....	"	"	33
Union st.....	Lynde and Front sts.....	"	"	60
Curtis st.....	Junction Pope st.....	E. B.	"	9
Marion st.....	At Eutaw st.....	"	"	4
	Total 8-inch.....			2,767
Ashburton pl.....	Bowdoin and Somerset sts.....	C. P.	6-in.	356
Auburn st.....	Near Leverett st.....	"	"	3
" ".....	150 feet from Leverett st.....	"	"	3
" ".....	At Leverett st.....	"	"	12
Avery st.....	" Mason st.....	"	"	8
Beverly st.....	Travers and Causeway sts.....	"	"	3
" ".....	" " " ".....	"	"	5
Billerica st.....	Causeway and Minot sts.....	"	"	3
Bowdoin st.....	Ashburton pl. and Derne st.....	"	"	168
" ".....	Beacon st. and Ashburton pl.....	"	"	400
Brighton st.....	At Milton st.....	"	"	4
" ".....	" Leverett st.....	"	"	30
Bumstead ct.....	" Boylston st.....	"	"	10
Camden st.....	" No. 82 and at Tremont st.....	"	"	16
Chandler st. (H. S.)...	" Castle sq.....	"	"	20
" " (L. S.)...	" " ".....	"	"	100
" ".....	Castle sq. and Berkeley st.....	"	"	270
Chatham st.....	Corner of Merchants row.....	"	"	3
" ".....	100 feet from Merchants row.....	"	"	3
Clarendon st.....	Corner of Commonwealth ave.....	"	"	4
Commerce st.....	Opposite No. 35.....	"	"	3
Creek sq.....	From Blackstone st.....	"	"	31
	<i>Carried forward</i>			1,455

Statement of Main Pipe Abandoned. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			1,455
Devonshire st.	Opposite No. 70 ..	C. P.	6-in.	20
Dartmouth st.	Junction of Marlboro' st.	"	"	6
Derne st.	Hancock and Bowdoin sts.	"	"	240
Dock sq.	Faneull Hall sq. and Exchange st.	"	"	140
" "	From Union st.	"	"	89
Eastern ave.	Opposite No. 35 ..	"	"	4
Exchange st.	At Dock sq.	"	"	30
Faneull Hall sq.	Merchants row and Dock sq.	"	"	260
" " "	" " " " "	"	"	198
Franklin st.	At Oliver st.	"	"	3
Fulton st.	Cross and Ferry sts.	"	"	33
Genesee st.	Albany st. and Harrison ave.	"	"	536
Hancock st.	Myrtle and Derne sts.	"	"	45
Haverhill st.	At Causeway st.	"	"	3
Hudson st.	" Kneeland st.	"	"	46
Joy st.	Beacon and Myrtle sts.	"	"	799
" "	At Myrtle st.	"	"	8
Kendall st.	Tremont st. and Shawmut ave.	"	"	1,101
Kneeland st.	Washington and Albany sts.	"	"	948
Kneeland st.	Atlantic ave. and Utica st.	"	"	384
Lancaster st.	Near Merrimac st.	"	"	3
Lowell st.	Cor. of Causeway st.	"	"	3
Lyman st.	" Prospect st.	"	"	4
Marlboro' st.	Berkeley and Clarendon sts.	"	"	4
" "	Arlington and Berkeley sts.	"	"	4
" "	Cor. of Arlington st.	"	"	3
" "	" " " " "	"	"	3
" "	West line of Dartmouth st.	"	"	3
" "	East " " " " "	"	"	3
" "	Clarendon and Dartmouth sts.	"	"	3
" "	Cor. Fairfield st.	"	"	5
" "	West line of Fairfield st.	"	"	3
" "	East " " " " "	"	"	3
	<i>Carried forward</i>			6,387

Statement of Maine Pipe Abandoned — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			6,387
Marlboro' st.....	Junction of Fairfield st.....	C. P.	6-in.	5
Mason st.....	Tremont and West sts.....	"	"	203
Medford st.	At Charlestown st.....	"	"	4
" "	" " "	"	"	4
" "	" Causeway st.	"	"	30
Nashua st.....	Causeway and Minot sts.	"	"	3
Newbury st.....	Arlington and Berkeley sts.	"	"	3
" "	250 feet east of Clarendon st.	"	"	3
" "	Cor. of Clarendon st.....	"	"	5
" "	" " " "	"	"	4
" "	" " Dartmouth st.....	"	"	4
" "	West side of Fairfield st.....	"	"	3
" "	East " " " st.....	"	"	8
Oliver st.....	Milk and High sts.	"	"	660
Onelda st.....	At Albany st.	"	"	60
Oswego st.	Harrison ave. and Albany st.....	"	"	531
Pinckney st.	At Joy st.	"	"	4
" "	Louisburg sq. and Joy st.....	"	"	664
Private way off Causeway st.....	Between old Fitchburg depot and new Union Station	"	"	350
Prospect st.....	Lyman and South Margin sts.	"	"	3
Rollins st.....	Harrison ave. and Washington st.	"	"	3
Roosevelt st.	Camden and Northampton sts.....	"	"	4
Seneca st.	At Albany st.....	"	"	132
Shawmut ave.....	Opposite Garland st.....	"	"	4
Somerset st.....	Howard st. and Ashburton pl.....	"	"	225
South Margin st.....	Corner Prospect st.....	"	"	4
South Market st.....	Commercial st. and Merchants row....	"	"	580
Spring st.....	At Leverett st.....	"	"	24
Stillman st.....	Charlestown st. and Stillman pl.....	"	"	32
Sudbury st.	At Bowker st.	"	"	5
Tyler st.....	" Kneeland st.....	"	"	46
Washington st.....	South line Union Park st.....	"	"	4
	<i>Carried forward</i>			9,996

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			9,996
Washington st.....	Opposite Flagg st.....	C. P.	6 in.	2
“ “	At Northampton st.	“	“	9
“ “	“ “ “	“	“	2
Wendell st.....	“ Oliver st.....	“	“	3
Bellevue st.....	Quincy and Kane sts.....	Dorchester	“	16
“ “	Quincy and Trull sts.....	“	“	6
Bird st.....	At Bodwell st.....	“	“	16
Bowdoin sq.....	Dakota and Westville sts.....	“	“	79
Centre ct.....	Off Centre st.....	“	“	12
Ceylon st.....	At Bird st.....	“	“	15
Chickatawbut st.....	Narragansett and Plain sts.....	“	“	345
Cottage st.....	From Gayland ave.....	“	“	3
Dakota st.....	Opposite Bowdoin sq.....	“	“	4
Davenport ave.....	At Columbia road.....	“	“	30
Elmo st.....	Opposite Greenwood st.....	“	“	4
Esmond st.....	Harvard and Bradshaw sts.....	“	“	437
Freeport st.....	Junction Hancock st.....	“	“	10
Glen st.....	At Glendale st.....	“	“	8
Gordon st.....	From Dunbar ave.....	“	“	15
Hamilton st.....	At Coleman st.....	“	“	4
“ “	“ Clarkson st.....	“	“	4
“ “	“ Mt. Everett ave.....	“	“	4
Johnson terrace.....	From Lauriat ave.....	“	“	12
Lauriat st.....	“ “ “	“	“	10
Mallett st.....	At Florida st.....	“	“	15
Medway st.....	From Adams st.....	“	“	240
Milton ave.....	“ Lauriat ave.....	“	“	12
Morton st.....	At Sanford st.....	“	“	38
“ “	Oakridge and Sanford sts.....	“	“	359
“ “	At River st.....	“	“	6
Narragansett st.....	Minot and Chickatawbut sts.....	“	“	287
Neponset ave.....	Walnut ave. and Neponset bridge.....	“	“	723
Newhall st.....	Pierce ave. and Ashmont st.....	“	“	606
	<i>Carried forward</i>			18,332

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			13,332
Norfolk st.....	At Elmhurst st.....	Dor.	6-in.	4
“ “.....	Edson st. and Lauriat ave.....	“	“	132
“ “.....	“ “ “ “ “ “.....	“	“	10
“ “.....	At Talbot ave.....	“	“	130
Pierce ave.....	Adams and Newhall sts.....	“	“	75
“ “.....	Plain and Newhall sts.....	“	“	122
Plain st.....	Chickatawbut and Pierce ave.....	“	“	705
Quincy st.....	At Magnolia st.....	“	“	17
Taylor st.....	Water st. and Neponset ave.....	“	“	1,054
Tucker st.....	From Lauriat ave.....	“	“	30
Westville st.....	At Corwin st.....	“	“	3
Boston st.....	Ellery st. and Andrews sq.....	So. Bost.	“	385
Bowen st.....	C and E. sts.....	“	“	401
Brewster st.....	Seventh and Eighth sts.....	“	“	818
Broadway.....	At O st.....	“	“	9
C st.....	“ Bowen st.....	“	“	10
Dorchester ave.....	“ Swett st.....	“	“	100
Eighth st.....	“ Lark st.....	“	“	3
“ “.....	“ Grimes st.....	“	“	9
Ellery st.....	“ Boston st.....	“	“	30
“ “.....	“ “ “ “.....	“	“	11
Fourth st.....	P and Q sts.....	“	“	40
K st.....	At Columbia road.....	“	“	35
Kemp st.....	Off Dorchester ave.....	“	“	49
O st.....	At Broadway.....	“	“	21
Sixth st.....	P and Q sts.....	“	“	24
Third st.....	At Emerson sts.....	“	“	16
Woodward st.....	“ Leeds st.....	“	“	10
Alleghany st.....	“ Parker st.....	Rox.	“	5
Ball st.....	Shawmut ave. and Washington st.....	“	“	529
Binney st.....	Francis and Smyrna sts.....	“	“	2
Blue Hill ave.....	At Nazing st.....	“	“	8
Cardington st.....	Across Cobden st.....	“	“	13
	<i>Carried forward</i>			17,642

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			17,642
Carmel st.....	Tremont st. and Delle ave.....	Rox.	6-in.	3
Centre st.	At New Heath st.	"	"	26
" "	New Heath and Penryth st.....	"	"	139
Crestwood st.....	Across Townsend st.....	"	"	11
Daniel st.	At Webber st.....	"	"	3
Decatur ave.....	" Columbus ave.....	"	"	10
Douglass ave.....	" Webber st.....	"	"	5
Dunford st.....	Across Cobden st.....	"	"	13
Ernst st.	" Bragdon st.	"	"	12
Fellows st.....	At Webber st.....	"	"	26
Harold st.....	" Townsend st.	"	"	10
Harrison ave.....	Webber and Nawn sts.....	"	"	87
Hazlewood st.	At Townsend st.	"	"	13
Hunneman st.	From Washington st.....	"	"	28
Linwood st.....	At Linwood sq.....	"	"	3
Maple st.....	" Nazing st.	"	"	3
Marcella st.....	Highland and Centre sts.....	"	"	996
Miles st.....	Across Bragdon st.....	"	"	12
Mt. Pleasant ave. .	At Mt. Pleasant terrace.....	"	"	12
New Heath st.....	" Centre st.....	"	"	40
Schiller st.....	Across Minden st.....	"	"	12
Shirley st.....	Norfolk and Massachusetts aves.....	"	"	426
Sterling st.....	West from Shawmut ave.....	"	"	116
Townsend st.....	At Harold st.....	"	"	8
" "	Near Humboldt ave.....	"	"	5
Tupelo st.....	At Quincy st.....	"	"	13
Unnamed st.....	Off Huntington ave, 3d right, south of Francis st.....	"	"	6
Vernon st.....	Tremont and Downing sts.	"	"	620
Washington st.....	Arnold and Ball sts....	"	"	9
Wyoming st.....	Humboldt ave. and Wabeno st.....	"	"	10
Yeoman st.....	At Reed's ct.....	"	"	3
Anson st.....	South st. and railroad.....	W. R.	"	3
Argyle st.....	Germania and Cornwall sts.....	"	"	5
	<i>Carried forward</i>			20,330

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			20,330
Argyle st.....	At Cornwall st.....	W. Rox.	6-in.	5
Berry st.....	Across Newburg st.....	"	"	7
Brookside ave.....	Boylston and Green sts.....	"	"	1,263
Carolina ave.....	At Call st.....	"	"	6
Congreve st.....	From Centre st.....	"	"	8
" ".....	Near South st.....	"	"	14
Cornwall st.....	Brookside ave. and Washington st....	"	"	554
Corinth st.....	Brandon and Birch sts.....	"	"	8
Custer st.....	Woodman and Ballard sts.....	"	"	7
Dresden st.....	Boylston st. and Spring Park ave.....	"	"	3
Germania ave.....	At Brookside ave.....	"	"	4
Hubbard st.....	Chestnut ave. and Lamartine st.....	"	"	3
Marmion st.....	Cornwall and Germania sts.....	"	"	6
" ".....	At Cornwall st.....	"	"	16
Maxfield st.....	Bellevue and La Grange sts.....	"	"	3
Moreland pl.....	From Pond st.....	"	"	247
Newburg st.....	At Cornwall st.....	"	"	3
Oak View terrace.....	Near Centre st.....	"	"	6
Oak ave.....	At Cass st.....	"	"	3
Pomfret st.....	Corey and Maple st.....	"	"	30
Seymour st.....	Rowe and Canterbury sts.....	"	"	36
Street off Keyes st. (near Call st.).....	At Keyes st.....	"	"	10
Bayard st.....	" Wetz st.....	Bri.	"	3
Callahan pl.....	" Western ave.....	"	"	3
Cambridge st.....	" River-st. bridge.....	"	"	3
Fairbanks st.....	" Faneuil st.....	"	"	359
Farrington st.....	Across Linden st.....	"	"	6
Gardner st.....	" " ".....	"	"	8
Linden st.....	Opposite Pratt st.....	"	"	11
" ".....	" " ".....	"	"	6
Oakland ave.....	Off Oakland st.....	"	"	3
Riverdale st.....	At Western ave.....	"	"	3
Seattle st.....	Across Cambridge st.....	"	"	18
	<i>Carried forward</i>			22,990

Statement of Main Pipe Abandoned. — *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			22,990
Selkirk road.....	Kileyth and Sutherland roads.....	Bri.	6-in.	11
Sidlaw road.....	At north side Commonwealth ave.....	"	"	3
Sorrento st.....	Across Cambridge st.....	"	"	13
Wadsworth st.....	Opposite No. 12.....	"	"	3
Allen st.....	At Main st.....	Chsn.	"	2
Baldwin st.....	" " ".....	"	"	1
" ".....	" " ".....	"	"	2
Brighton st.....	" Caldwell st.....	"	"	6
Cambridge st.....	" Brighton st.....	"	"	4
" ".....	" Carter st.....	"	"	3
Cottage st.....	Medford and Bunker Hill sts.....	"	"	47
Decatur st.....	At Chauncy pl.....	"	"	4
Dorrance st.....	Main st. and Arlington ave.....	"	"	748
Eden st.....	At Main st.....	"	"	8
Freedom ct.....	" " ".....	"	"	2
Frothingham ave.....	" " ".....	"	"	2
Lincoln st.....	" " ".....	"	"	4
Main st.....	" Cambridge st.....	"	"	12
" ".....	" Dorrance st.....	"	"	4
Meade st.....	" Main st.....	"	"	4
Miller st.....	" " ".....	"	"	6
Mystic ave.....	Dorrance and Sherman sts.....	"	"	230
Oak st.....	At Main st.....	"	"	3
South Eden st.....	" " ".....	"	"	7
Walker st.....	" " ".....	"	"	2
Bremen st.....	" Gove st.....	E. B.	"	9
Decatur st.....	" Border st.....	"	"	3
" ".....	Border and Havre sts.....	"	"	633
Eutaw st.....	Opposite No. 70.....	"	"	4
" ".....	At Brooks st.....	"	"	4
" ".....	Opposite No. 36.....	"	"	4
" ".....	" " 76.....	"	"	4
" ".....	" " 56.....	"	"	4
	<i>Carried forward</i>			24,776

Statement of Main Pipe Abandoned.— *Continued.*

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			24,776
Eutaw st.....	Opposite No. 108.	E. B.	6-in.	4
“ “	“ “ 143.	“	“	4
Gove st.....	At Paris st.....	“	“	11
“ “	Orleans and Bremen sts.....	“	“	9
Havre st.....	Sumner and Meridian sts.....	“	“	1,210
Lexington st.....	West of Putnam st.....	“	“	3
“ “	East of Prescott st.....	“	“	3
“ “	West of “	“	“	3
“ “	East of Brooks st.....	“	“	6
“ “	West of Putnam st.....	“	“	8
“ “	At Putnam st.....	“	“	4
Marion st.....	Bennington and Bremen sts.....	“	“	874
Monmouth st.....	Opposite No. 41.....	“	“	4
Orleans st.....	Gove and Sumner sts.....	“	“	1,085
Orient pl.....	At Orient ave.....	“	“	4
Paris st.....	“ Gove st	“	“	16
Princeton st.....	Opposite No. 284.....	“	“	4
“ “	At Brooks st.....	“	“	4
“ “	Opposite No. 108.....	“	“	4
Saratoga st.....	“ “ 21.....	“	“	4
“ “	“ “ 57.....	“	“	4
“ “	“ “ 183.....	“	“	4
“ “	“ “ 189.....	“	“	4
“ “	“ “ 259.....	“	“	4
“ “	“ “ 225.....	“	“	4
“ “	“ “ 327.....	“	“	4
White st.....	“ “ 79.....	“	“	4
“ “	“ “ 85.....	“	“	4
	Total 6-inch.....			28,072
Cazenove st.....	Chandler st. and Railroad.....	C. P.	4-in.	318
Clifton pl.....	At Washington st.....	“	“	5
Corn ct.....	From Faneull Hall sq.	“	“	37
	<i>Carried forward</i>			360

Statement of Main Pipe Abandoned. — Continued.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			360
Flagg st.	Across Washington st.....	C. P.	4-in.	24
Garland st.	Shawmut ave. and Washington st.....	"	"	330
Greenough lane.....	Off Commercial st.....	"	"	49
Loulsburg sq.....	Pinckney and Mt. Vernon sts.....	"	"	294
Lucas st.....	Washington st. and Shawmut ave.....	"	"	324
May pl.....	Oak and Nassau st.....	"	"	200
Milton st.....	Spring and Brighton sts.....	"	"	310
Mt. Vernon pl.....	From Joy st.	"	"	250
Nassau st.....	Harrison ave. and Ash st.....	"	"	313
Public Alley No. 102...	Marshall st. and Salt lane.....	"	"	210
Savoy st.....	Washington st. and Harrison ave.....	"	"	350
St. Charles st.....	Chandler st. and B. & A. Railroad....	"	"	300
Whitmore st.....	At Kneeland st.....	"	"	18
Winter pl.....	Off Winter st.....	"	"	126
Oakman st.....	Walnut and Taylor sts.....	Dor.	"	307
Baldwin st.	Granite and A sts.....	So. B.	"	273
Bowen st.....	C and E sts.....	"	"	408
Emerson st.....	M and Fourth sts.....	"	"	867
Emmet st.....	Second and Third sts.....	"	"	322
Gold st.....	B and C sts.	"	"	414
" "	C and D sts.....	"	"	242
Grimes st.....	Seventh and Eighth sts.....	"	"	418
Jay st.....	From Fifth st.....	"	"	174
Lark st.	Eighth and Ninth sts.....	"	"	196
Leeds st.....	From Woodward st.....	"	"	203
Loring st.....	Seventh and Eighth sts.....	"	"	297
National st.....	Fourth st. and Thomas Park.....	"	"	330
Ambrose st.....	Chadwick and Albany sts.....	Rox.	"	301
Huckins st.	Blue Hill ave. and Dennis st.....	"	"	324
Linwood sq.....	From Linwood st.....	"	"	361
Nawn st.	Washington st. and Harrison ave.....	"	"	455
Orchard st.....	At Orchard Park st.....	"	"	4
Reed's ct.....	At Ambrose st.....	"	"	4
	<i>Carried forward</i>			9,358

Statement of Main Pipe Abandoned. — Concluded.

In what Street.	Between what Streets.	District.	Size.	Length.
	<i>Brought forward</i>			9,358
Reed's ct.....	Yeoman and Ambrose sts.....	Rox.	4-in.	276
Stafford st.....	Blue Hill ave. and Dennis st.....	"	"	384
Webber st.....	Albany st. and Harrison ave.....	"	"	662
Winthrop pl.....	At Washington st.....	"	"	6
Albion pl.....	At Main st.....	Chsn.	"	3
Allen pl.....	" Thorndike st.....	"	"	9
Brighton st.....	Perkins and Caldwell sts.....	"	"	238
Cambridge st.....	At Main st.....	"	"	18
Cottage st.....	Medford and Bunker Hill sts.....	"	"	684
Fremont and Chauncy pls.....	Medford and Decatur sts.....	"	"	423
Frothingham ave.....	Main st. and Rutherford ave.....	"	"	670
Furbush ct.....	" " " " " ".....	"	"	270
Hamilton ct.....	At Main st.....	"	"	2
Harvard sq.....	Off Harvard st.....	"	"	532
Irving pl.....	At Main st.....	"	"	6
Johnson ave.....	Main and Lawrence sts.....	"	"	110
Lyndeboro' st.....	Middlesex and Essex sts.....	"	"	359
Scott's ct.....	At Medford st.....	"	"	30
Sherman sq.....	Off Mystic ave. (north side).....	"	"	14
" ".....	" " " (south side).....	"	"	22
Sherman st.....	" " ".....	"	"	443
Thorndike st.....	Main st. and Rutherford ave.....	"	"	264
	Total 4-inch.....			14,683
Phillips st. (J. P. A.)..	From Ward st. towards Longwood ave.	Rox.	3-in.	140
Shirley Gut.....	Point Shirley and Deer Island.....	—	2-in.	657
Lynde ave.....	Off Main st.....	Chsn.	"	10
	Total 2-inch.....			667

Blow-off Gates Established and Abandoned during the Year.

	DIAMETER IN INCHES.			TOTAL.
	4	6	12	
Number established.....	8	10	....	18
Number abandoned.....	3	1	1	5
Increase.....	5	9	— 1	13

Private Gates Established and Abandoned during the Year.

	DIAMETER.	TOTAL.
	4 inches.	
Number established.....	1	1
Number abandoned.....	1	1
Increase.....	..	..

Hydrants Established and Abandoned during the Year.

	ESTABLISHED.			Total.	ABANDONED.				Total.	Increase.	Decrease.	Net Increase.
	Lowry.	B. Lowry.	Post.		Lowry.	B. Lowry.	Post.	Boston.				
City Proper (Public).....	44	4	49	97	49	6	2	52	109	.....	12	
“ “ (Private).....			1	1	.....	.....	.....	1	1	.....	.....
South Boston (Public).....	7	3	42	52	10	2	8	33	53	.....	1	
East Boston (Public).....	2	.....	32	34	6	1	.....	27	34	.....	.....
Roxbury (Public).....	5	9	46	60	22	7	.....	7	36	24	.....
Dorchester (Public).	6	27	109	142	35	27	11	10	83	59	.....
“ (Private).....			.....	.....	.....	.....	.....	1	1	.....	1	
West Roxbury (Public).....	2	17	26	45	7	12	1	4	24	21	.....
“ “ (Private).....	.....	.....	2	2	.....	.....	2	.....	2	.....	.....
Brighton (Public).....	1	6	22	29	4	3	2	2	11	18	.....
Charlestown (Public).....	15	.....	6	21	10	.....	1	2	13	8	.....
Total Public.....	82	66	332	480	143	58	25	137	363	130	13	117
Total Private.....	.....	.....	3	3	.....	.....	2	2	4	.....	1	

Total Number of Hydrants Connected with Distribution System, January 31, 1900.

	Lowry.	B. Lowry.	Post.	Boston.	Total.	NOTES.
City Proper (Public).....	770	51	376	242	1,439	
" " (Private).....	.....	.....	*11	*44	55	*26 Bostons } not for fire. *1 Post
South Boston (Public)....	226	29	180	132	567	
" " (Private)...	2	.....	*13	*33	48	*2 Bostons } not for fire. *4 Posts
East Boston (Public).....	147	26	198	13	384	
" " (Private)....	8	.....	7	*25	40	*7 not for fire.
Roxbury (Public).....	610	86	462	48	1,206	
" (Private).....	*1	.....	.....	*10	11	*1 Lowry } not for fire. *1 Boston
Dorchester (Public).....	508	243	961	34	1,746	
" (Private).....	.....	1	*1	*4	6	*1 Boston } not for fire. *1 Post
West Roxbury (Public)...	123	231	625	31	1,010	
" " (Private)...	.....	.....	14	1	15	
Brighton (Public).....	71	73	370	25	539	
" (Private).....	.....	.....	6	*2	8	*2 not for fire.
Charlestown (Public).....	205	37	50	2	294	
" (Private)....	14	1	36	*6	57	*1 not for fire.
Deer Island (Private).....	.....	.....	18	.....	18	
Long Island (Private).....	.....	.....	6	.....	6	
Thompson's Island (Private).....	.....	.....	2	.....	2	
Rainsford Island (Private).....	.....	3	1	*1	5	*1 not for fire.
Galloupe's Island (Private).....	.....	.....	1	*1	2	*1 not for fire.
Brookline.....	5	.....	.....	3	8	
Chelsea.....	.....	.....	.....	7	7	
Quincy.....	.....	.....	11	.....	11	
Total number Public Hydrants.....	2,660	776	3,222	527	7,185	
Total number Private and Suburban Hydrants.....	30	5	127	137	293	

Water Posts.

DISTRICT.	Number in use Jan. 31, 1899.	Established during the year.	Abandoned during the year.	Number in use Jan. 31, 1900.
City Proper.....	70	7	2	75
South Boston.....	35	5	2	38
East Boston.....	40	1	.....	41
Roxbury.....	74	4	.....	78
Dorchester.....	89	16	5	100
West Roxbury.....	77	13	2	88
Brighton.....	50	4	1	53
Charlestown.....	20	1	.....	21
Totals.....	455	51	12	494

Causes of Repairs on Main and Service Pipes.

Abolishment of grade crossings	6
Blasting	19
Broken by steam shovel	1
“ “ pile driver	2
“ “ steam roller	7
“ in foundation wall	36
Defective joints	278
“ pipes	86
“ packing	236
“ stop-cocks	416
“ couplings	57
Eaten by soil	8
“ “ electrolysis	5
Frozen	98
Gnawed by rats	11
In way of various corporations	335
Mains cocks required renewal	147
Nuts on sidewalk tubes required oiling	957
On account of sewer construction	88
Pipe stolen	9
“ worn out	15
Settlement of earth	488
Sidewalk cocks required renewal	240
Sidewalk uprights above or below grade	8,685
“ “ in way of edgestone	114
Stopped by dirt	115
“ “ fish	34
<i>Carried forward</i>	12,493

WATER DEPARTMENT.

105

<i>Brought forward</i>	12,493
Stopped by gasket	14
“ “ rust	582
Struck by pick	249
Widening of streets	59
	<hr/>
	13,397
	<hr/>

Statement of Miscellaneous Work Performed during the Year 1899.

Boxes over bridges repaired	50
Dead ends blown off	725
Fountains repaired	314
Gates salted on account of cold weather	2,807
Gates inspected	28,352
Gates oiled and cleaned in service	264
Gate boxes cleaned out	935
Hydrant barrels changed for repairs	237
Hydrant boxes renewed in service	301
Hydrant boxes cleaned out	1,573
Hydrant boxes repaired in service	569
Hydrant inspection on account of cold weather	145,834
Hydrants oiled in service	1,114
Hydrants painted	2,556
Hydrants repaired in service	487
Investigations made on false reports	897
Locations of gates marked and remarked	11,917
New sidewalk cocks put in	45
New main uprights put on	134
Putting hay in hydrant boxes	466
Stop-cock boxes repaired in service	902
Stop-cock boxes renewed in service	224
Streets repaired	1,454
Taking hay out of hydrant boxes	562
Water posts repaired	983
Water turned off and on for repairs	255

APPENDIX C.

REPORT OF THE ENGINEER.

ENGINEERING DEPARTMENT,
50 CITY HALL, February 1, 1900.

GEN. A. P. MARTIN,

Water Commissioner :

SIR,—I hereby submit the following report of the work done and records kept during the past year:

During the past year 27.4 miles of main pipe have been laid and 10.5 miles abandoned, making a net increase of 16.9 miles, and a total length in the system of 706.1 miles; the pipe laid can be classified as follows:

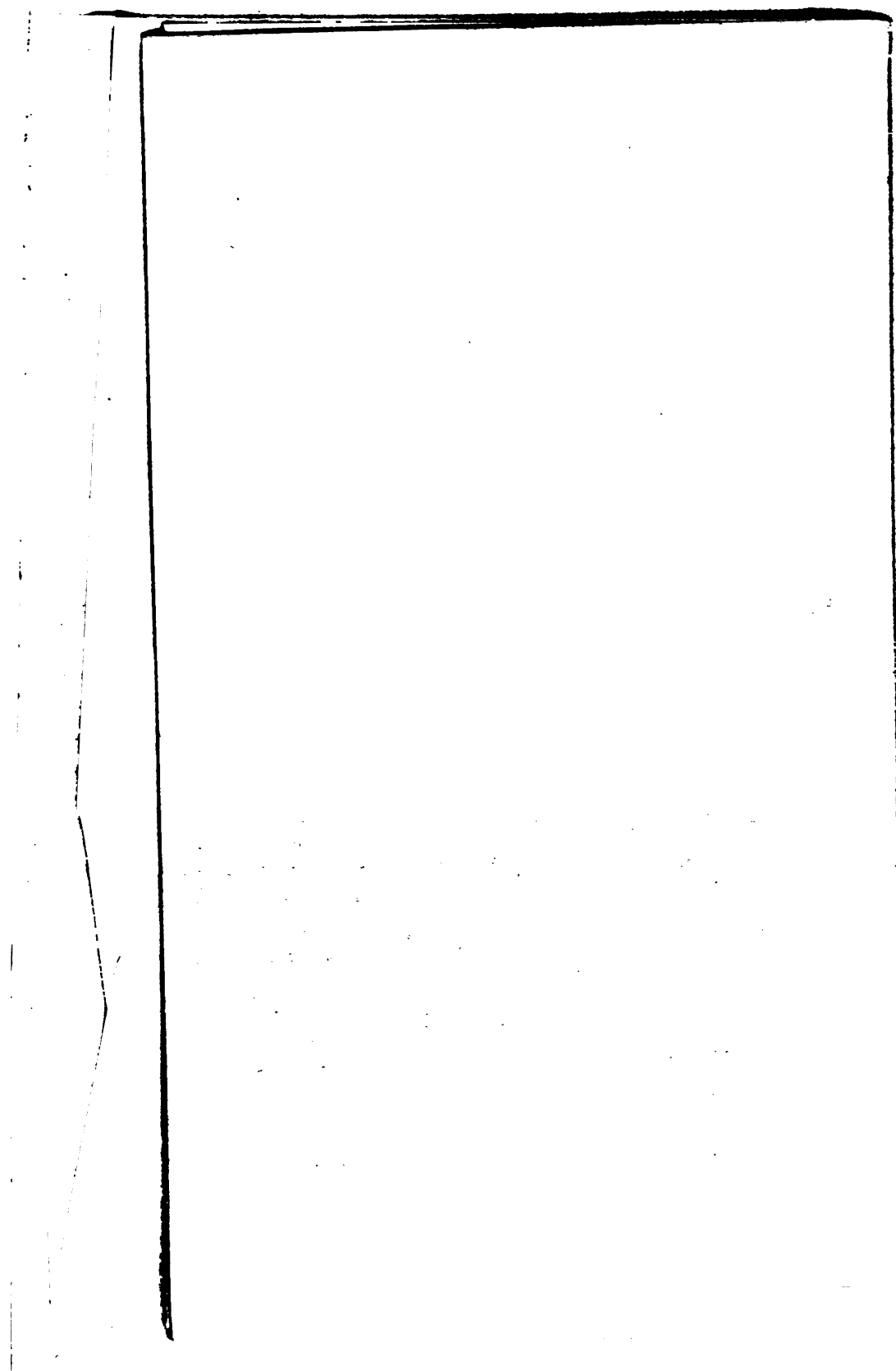
	Miles.
(1) Extension of large supply mains	2.2
(2) Extension for new buildings (by petition)	7.1
(3) Work done in advance of street construction	6.6
(4) Relaying old or small mains	8.5
(5) Miscellaneous work necessitated by other construction, etc.	3.0

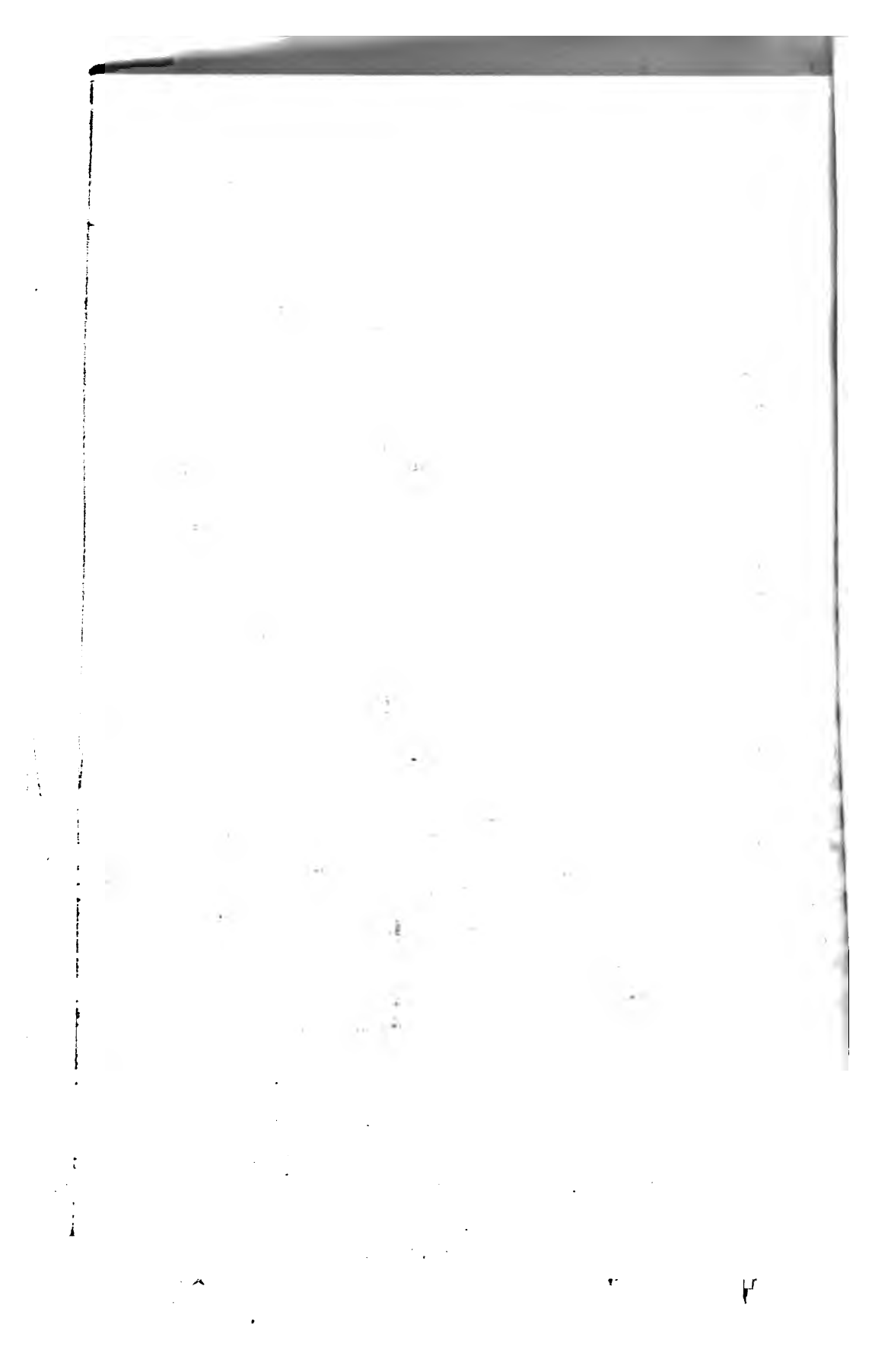
In addition to the work demanded by the natural growth of and improvements in the city there is an increasing necessity for relaying small mains in order to ensure ample fire protection; for several years past much has been done in this direction, but an equal or increased amount of relaying is required in the future.

It will be necessary to lay at least twenty-five miles of pipe yearly under present conditions.

The following is a brief statement of the most important work done during the year, for all of which plans were furnished, lines and grades given when required, and the actual construction inspected.

The 24-inch high service main in West Roxbury was ex-





tended in South street to Centre street and thence through Centre street to Spring street, reducing at Beach street to twenty inches; connections were made at Beach, La Grange, and Spring streets. The completion of this main to Spring street has improved very greatly the service in the south-westerly portion of West Roxbury.

A 20-inch low service main was laid in Washington street from Boylston to Kneeland street under difficulties of location shown by accompanying plan; connection was made at Kneeland street with the existing 16-inch pipe in Washington street, and from this point a 16-inch main was laid in Kneeland street to Atlantic avenue, replacing the old 6-inch pipe; in Atlantic avenue the old 12-inch main was relaid with 16-inch as far as Oliver street. This work was made necessary by the new conditions brought about by the construction of the South Terminal Station.

The 12-inch low service main in Western avenue, Brighton, was relaid with 16-inch from Barry's corner to Everett street, and it is intended to carry the larger main as far as Market street, to improve the fire protection for the large industries in this neighborhood.

A 16-inch pipe was laid in Columbia road, between I and O streets, under contract by O'Rourke & Nelson.

A 16-inch main was laid in Q street, South Boston, from East Third to East Sixth street. A 16-inch main was laid in Talbot avenue from Nightingale street to Washington street. A 16-inch main was laid in Bowdoin street from Beacon street to Somerset street. Two 12-inch mains were laid in Commonwealth avenue, on the westerly side from Warren street to Chestnut Hill avenue, and on the easterly side from Warren street to Wallingford road.

In a number of localities 10-inch and 12-inch pipe were laid replacing mains of a smaller size, notable on Beacon Hill and in the neighborhood of Faneuil Hall square in the City Proper, in Charlestown, East Boston, and South Boston, in the northern part of Roxbury, in Jamaica Plain, and in the neighborhood of Neponset, Dorchester. This work was all caused, entirely, by the need of more water for fire protection, the supply being ample for domestic service in each case.

A large amount of relaying and changing pipe was caused by the extension through the city, easterly from Columbus avenue, of the Boston & Providence Railway; by the work of the Massachusetts Pipe Line Company; by the operations of the Boston Elevated Railway and Transit Commission, and by the abolishment of grade crossings at Summer-street extension and Dorchester avenue.

Some of the work done under the above heads is as follows :

FOR THE BOSTON & PROVIDENCE RAILROAD.

250 feet of 20-inch pipe was relaid on Columbus avenue.			
250	"	12	" " " "
320	"	4	" " with 6-inch pipe on Cazenove street.
100	"	12	" " was laid on Chandler street.
450	"	6	" " was relaid with 12-inch pipe on Chandler street.
140	"	16	" " " on Washington street.
100	"	12	" " " " " "
220	"	12	" " " Motte street.
130	"	6	" " with 12-inch pipe on Way street.
350	"	12	" " on Albany street.
250	"	6	" " Seneca street.
80	"	6	" " Oneida street.
120	"	12	" " Lehigh street.
300	"	12	" " was raised on Harrison avenue.

A Deacon meter was established at Tremont and Compton streets to replace one abandoned at corner Tremont and Castle streets.

FOR THE MASSACHUSETTS PIPE LINE COMPANY.

Main pipes were changed at 41 different points in Charlestown, Brighton, Roxbury, West Roxbury, and Dorchester to allow the large gas-pipe to be laid, and a large number of service-pipes were changed in 23 streets on the same account.

FOR THE BOSTON ELEVATED RAILWAY.

384 feet of 24-inch pipe was relaid in Main street, Charlestown.			
1,900	"	16	" " Main street, Charlestown.
25	"	12	" " on Commercial street at Clark street.
36	"	6	" " Commercial street at Foster street.
170	"	12	" " Commercial st. at Greenough lane.
49	"	6	" " Commercial st. at Greenough lane.
60	"	4	" " Atlantic avenue at Pearl street.
16	"	8	" " Atlantic avenue at Central wharf.
140	"	16	" " Causeway street at Fitchburg Railroad Depot.
139	"	8	" " with 12-inch pipe on Washington street, south of Rollins street.
300	"	6	" " was lowered on Zeigler street, Roxbury.

The 16-inch pipe in Main street, Charlestown, was changed at 16 points to avoid foundations for posts.

The 8-inch pipe in Washington street was changed at 10 points for the same reason.

A number of services, hydrants, etc., were changed.

FOR THE TRANSIT COMMISSION.

560 feet of 12-inch pipe was relaid with 16-inch in Causeway street.			
200	"	12	" " was raised in Charlestown street.
165	"	12	" " " Endicott street.
140	"	6	" " was laid in Charles River avenue.

ON ACCOUNT DORCHESTER AVENUE GRADE CROSSING.

150 feet of 30-inch pipe	was lowered on Swett street.
125 " 20 "	was relaid on Boston street.
125 " 16 "	" " Boston street.
425 " 12 "	was relaid or lowered on Boston street.
40 " 12 "	" lowered on Dorchester avenue.
90 " 6 "	" raised on Kemp street.

A number of hydrants, etc., were changed.

During the year a large section, containing 6,000 people, in Charlestown, was changed from high to low service, and in the neighborhood of Milton Lower Mills a section containing 3,000 people was added to the high service.

Three additional connections were made with the large mains of the Metropolitan Water Board, viz.: a 16-inch on Morton street, near Blue Hill avenue; a 16-inch on River street at Morton street; and a 16-inch on North Harvard street at Spurr street. The connections previously made with the Metropolitan Water Board mains are as follows:

A 36-inch on Beacon street, near Harvard street, Brookline.

A 30-inch on Pearl street at Walnut street, Somerville.

A 24-inch on Broadway at Walnut street, Somerville.

A 20-inch and a 24-inch on Broadway at Williams street, Chelsea.

A 20-inch on South street at Morton street.

A 12-inch on Orient avenue near Farrington street, East Boston.

The policy of abolishing the old Boston hydrants has been continued during the year, 138 being abandoned.

Two new recording gauges have been established in Dorchester and two have been abandoned; two have been established in Brighton, and one in West Roxbury.

The results of the work done by the men operating the Deacon meters have been computed, and monthly statements of the waste found have been made.

THE CORROSION OF PIPES BY ELECTROLYSIS.

During the past year there has been no marked improvement in electrical conditions in the pipe system, while nothing has been observed to indicate a greater cause for uneasiness than in the past. The fact that conditions are ever changing, owing to the construction of new lines of electric railway, the laying of new pipe lines, etc., demands intelligent and constant investigation that new dangers may be detected and guarded against before serious damage occurs; this field of work is largely without precedent, and an element of uncertainty in regard to actual conditions must obtain. While it is true that the return systems of electric railways have been improved in the past few years, it is equally true that the use of electricity for motive power is rapidly increasing, and that the water pipe proves, too often, to be the line of least resistance to the power station.

The following extracts from the report of Messrs. Stone & Webster describes the work done by them during the year, and the existing conditions as determined by them:

"In accordance with your request, we have, in the year 1899, as in preceding years, made an electrical survey in all parts of the City of Boston where the electric car tracks are located, to determine, if possible, the extent or likelihood of injury to the water mains and services by corrosion due to the electric current escaping from the return systems of the street railways.

"In our last year's report we showed by diagram how, in a general way, the conditions compared with those of the previous year, and for this report we have paid still more attention to getting data for comparison. We took pains to obtain readings at the same places as in 1898; and furthermore we took the readings twice between piping system and tracks, once in the spring and a second time in the autumn.

"*Appendix A*, to this report, gives in tabulated form the three sets of readings, *i.e.*, 1898, spring of 1899 and autumn of 1899, respectively. The maximum values are given wherever the readings fluctuated, and for convenience the figures are recorded to only the nearest half volt."

"VOLT-METER READINGS BETWEEN PIPING SYSTEM
AND TRACKS.

"These readings are taken to ascertain the general tendency of the flow of electric current, which, under existing conditions, is bound to escape in larger or smaller quantities from the car tracks and on to the water pipes, as it seeks the path of least resistance in completing its circuit back to the power station. Where the piping system, which for convenience we shall also speak of as 'hydrant,' is of higher potential than the track, as shown by what we call a plus (+) or positive reading, the presumption is that here the current is flowing off the piping system through the ground back to the rails. On the contrary, where it is of lower potential, as shown by a negative reading, the flow is presumably in the reverse direction. Single readings, however, are hardly reliable in an investigation of this kind, and often, after many readings in a given locality, we have but general indications of how the current is flowing.

"Corrosion by electrolysis takes place only where the current leaves the metal, whether to flow through the earth back to the rails, or on to some other pipe, or simply around a joint of poor electrical conductivity. Since, however, the current which flows off must necessarily first have flowed on, indications of a large current flowing on to the piping system are to be considered as indirect danger signs. Furthermore, since a perfect return system would carry the entire current back to the power station, without any of it flowing along the water pipes, these symptoms of escaping current afford a rough index as to the quality of the street railway returns.

"*Appendix A* is inserted for a study of the conditions in detail; *Appendix B*, a table of averages, and *Appendix C*, a diagram giving a general view, contain most of the data essential for understanding the conclusions which we have drawn from this part of the examination.

"In our report for 1898 we gave the averaged hydrant readings of the familiarly recognized districts of the city, as East Boston, Charlestown, City Proper, and the like; giving these districts the somewhat arbitrary boundaries which we thought would best serve the purpose. In this report, however, we have adopted what we consider a more logical classification, though it may appear at first sight less simple. We have grouped the readings according to general size, holding to the usual geographical boundaries only where they happen to be convenient.

"These hydrant readings and their averages, thus recorded

can, we think, be easily misunderstood, and therefore as our interpretation we offer the following:

"One volt positive, or one volt negative, between hydrant and rail, is approximately the average of all the readings for the years 1898 and 1899. Taking this as a standard we assume, for the present, that the piping system in all the districts in which the averages do not exceed this amount is free from any widespread, serious electrolytic corrosion. On this basis the following districts, except possibly in very small sections, are not in danger of immediate trouble to water pipes: I. East Boston; III. City proper; IV. South Boston; VI. most of South End; VIII. most of Brighton; XI. a large section of Dorchester; and also District B, along North Beacon street, Brighton (location of the Newton and Boston Street Railway).

"It will be noticed by referring to tables in *Appendix A*, and *B*, that the highest single reading in any of the above-mentioned districts was -3 . volts; this was in South Boston, at one hydrant in the spring, and at another near by in the autumn. But since these two cases are so isolated, and since they indicate a flow on to and not off from the pipes, we need call attention to them only for future comparison. Other local high readings also occur in these districts; as, for instance, on Bowdoin street, Dorchester (District XI.), near Geneva avenue and near Olney street. These were $+2.5$ and $+2$, respectively, and were taken this last autumn. Being positive readings they point to a possible danger district; but since the other positive readings of that vicinity are so much smaller we consider the value of these particular ones to be principally for reference in future examinations.

"Of the districts that showed a higher average than the standard, II., including most of Charlestown, averaged for its negative readings -2.5 volts, with a maximum (in 1898) of -8 ; but evidently the extension of the tracks over the top of Bunker Hill, to connect again at the bottom with those on Main street at Sullivan square, has bettered the return system, as shown by the readings in 1899. The reading of -4 last spring on Chelsea street is unusually high, but too local to be considered of much significance just now. District XV., on Alford street, Charlestown, and across the Malden bridge, with an average of positive readings of over $+2$, and a maximum (in the spring) of $+4$ would, we think, in all probability suffer much from electrolysis to-day, were it lined with houses. So long, however, as we know of no trouble that has developed here, and while there are so few service-pipes on Alford street, we should hardly call this a serious danger district.

"District V., along Harrison avenue, between Dover and Northampton streets, has an average of positive readings decidedly higher than the standard, being $+1.9$ for the spring and $+1.7$ for the autumn, with maxima of $+3$ and $+2.5$, respectively. The negative readings were too low to consider. This is a danger district which we shall refer to again when we speak of excavations.

"District VII., Back Bay, has no positive readings, but its negative readings averaged about -1.5 volts, with a maximum of -3.5 , in both spring and autumn. Since, however, the maximum readings are so isolated, and since the average is so slightly above the 1 volt, we do not consider its condition as serious.

"District IX., along Chestnut Hill Reservoir, is without positive readings, but shows indications from the large negative readings that much current tends to flow on to the pipes, the average being over -3 volts in the spring and over -4 volts in the autumn, with a maximum of -5 . Whether this is due to inferior rail-bonding, and whether there actually is a large flow of current, as indicated, we cannot be sure without making careful and somewhat complicated tests, which we think would be worth the while another season.

"A source of trouble which we have not considered a serious menace to the pipes in Boston, but which has been thought serious in other cities, as proved by actual cases of electrolysis, is the flow of current along the water mains themselves. So long as the joints in the pipes are such good electrical conductors that there is little or no tendency for the current to flow around them, and hence to cause corrosion when it leaves the pipe, we know of no harm done by the current simply flowing along the mains. Experience in Boston seems to show that serious trouble from this flowing around joints has rarely occurred here. One probable case, in the South End district, we shall consider under the head of 'Excavations.'

"District X., Roxbury and part of West Roxbury, although showing a somewhat high negative average for 1898, shows by later measurements an improved condition. The local high readings on Centre street are not so high as in 1898, and we understand that the Boston Elevated Railway has taken much pains to remedy the peculiarly high reading on Washington street, near Morton, where the Norfolk & Suburban Street Railway also has a terminus.

"District XII., Field's Corner and Neponset, has no negative readings, but a high average of positive ones. It is a

danger district where serious trouble has been found which we shall consider under the head of 'Excavations.'

"District XIV., Blue Hill avenue, between Grove Hall and Walk Hill street, has no positive readings worth considering, but a high negative average, and, like the Reservoir District, will warrant particular study to see how much current is actually flowing.

"District XV., Charlestown, we considered with District II.

"As a whole, the hydrant readings along the Boston Elevated Railway system had nearly the same average as the standard of 1 volt, positive or negative; and, as compared with most of the other street railways which enter the city, the Elevated shows a more efficient return system.

"The districts other than those of the Boston Elevated do not, for the most part, show particularly high averages; but this characteristic was noticed, that the size of the reading depends largely upon whether a car is near. In general, the smaller the system, *i.e.*, the fewer the cars, the more sensitive to the nearness of the cars is the voltage between hydrant and rail, and consequently the flow of current. Thus, the maximum of 10 volts last spring on Washington street, in the district of the West Roxbury & Roslindale Street Railway, maintained only for a moment, shooting up, as it were, as the car approached from Forest Hills Station. This fact should be remembered in judging of the danger threatened by smaller roads, for the damage to be done by a large flow of current depends upon how long a time it flows.

"District A, of the Lynn & Boston Railroad, we visited for the first time this autumn. It is but a short strip on Breed's Island, and the readings were low, except for the few moments that the car was near. It may be that in the summer season, during Sunday traffic, the current flows on to and off the pipes in large quantities, so that we would reserve our decision as to how much trouble may be apprehended from this source until we have taken measurements under more representative conditions.

"District B, along North Beacon street, Brighton, part of the Newton & Boston Street Railway, shows almost no signs threatening serious trouble. Here is a recently laid track, in operation only about two years, and if that company maintains it in as good condition as we have found, we should be surprised to learn of any trouble to water-pipes resulting in the near future.

"District C, in Squantum and the neighboring section of Quincy, part of the Quincy & Boston Street Railway, showed the high negative average of —3, with a maximum of —6

last autumn. Just like District A, of the Lynn & Boston, this district should be visited at a time when there is heavier traffic than we have found.

"District D, along River street, Dorchester, part of the Norfolk Suburban Street Railway, shows a high positive average in the autumn, and a high negative average in the spring. The readings in this district have evidently been much influenced by the opening of the Boston, Milton & Brockton Street Railway, which has a terminus on Eliot street, Milton, and which is fed from the same power station as the Norfolk Suburban in Hyde Park. We have not traced any metallic connection between the tracks of the two railways, but we think it possible that the pipes of the Metropolitan Water Works, affected by both of these street railways, have made a connecting link for the current so as to materially change the quantity and direction of its flow. A branch of the West Roxbury & Roslindale Street Railway connecting with the Norfolk Suburban at Mattapan, and fed from the same power station, also has probably affected the conditions. We shall consider this district again under the head of 'Excavations.'

"District E, along Hyde Park avenue, also a part of the Norfolk Suburban Street Railway, showed particularly high positive readings in the spring, but a much improved condition in the autumn, when, however, the negative readings were somewhat high. As a whole, the road shows a return system inferior to that of the Boston Elevated; but of course the lighter traffic gives a different color to an interpretation of the size of the readings.

"District F, including most of the West Roxbury & Roslindale Street Railway, shows a lower average, particularly of positive readings, than might be expected of so small a road. It gave some high local negative readings, as on Washington street, between Forest Hills Station and South street, where there was a maximum of — 10 volts last spring. The new line to Mattapan, over Ashland street, gave somewhat high positive readings. Scarcity of service-pipes here, however, as in fact along the locations of this entire railway, should be considered in deciding the question of present damage to water-pipes.

"District G, a short length of the Needham & Boston Street Railway, has been opened recently, and one of the two readings which we took, being — 6, is sufficiently high to warrant further consideration in the near future, in order to learn approximately how much current leaks on to the mains and service-pipes."

"EXCAVATIONS.

"For an inspection of the mains and services in certain localities where we suspected they might have been injured by electrolytic corrosion we requested that excavations be made, and short lengths of pipe exposed for examination.

"On Dover street, between Washington street and Shawmut avenue, there was a break in the main early last April, and our attention was called to it. Examination showed that in all probability the trouble was the result of electrolytic corrosion. The voltmeter readings which we took were at first misleading, because they differed widely according to which of the points of contact wires were attached. The pipe had been cut and the electric current, therefore, broken, so that the readings were not characteristic of the normal electrical condition of the pipe. A few days later, after the pipe had been mended, we again took voltmeter readings, not at the same spot, but at the excavations near by, and these showed a difference of potential of from +1 to +1.5 between pipe and rail, and from +.2 to +.4 between pipe and ground. This was on the high pressure main. The low pressure service-pipe showed a somewhat lower potential; but other readings at hydrants and high pressure gates in this section lead us to conclude that in general the relation between each of the two systems and the tracks is about the same.

"It is possible that the Dover-street main burst on account of recent action. We think likely, however, that most of its weakening took place several years ago, under conditions which have since been improved upon.

"Excavations at seven places on Harrison avenue, all between Dover and East Canton streets, revealed little or no corrosion, except in one place, the service to No. 491, somewhat north of the Central Power Station. The note we made of this excavation was as follows: Five feet down, damp clay, almost wet; +2.5 to track; +.3 to ground. Bad corrosion in places, tending to peel off, but not deep.

"How recently this corrosion was formed we cannot say; but considering the number of years the electric road has been installed and this power station in operation we were surprised that in these seven excavations worse symptoms of serious injury to water-pipes should not have appeared. Although slight corrosion is doubtless going on along the Harrison avenue service-pipes in this district we do not expect any general trouble to arise in the immediate future. We strongly recommend, however, that the authorities in charge

of the water-pipes in this, and in every other part of the city, take pains to keep, as far as practicable, specimens of all broken mains and services showing the character of the break and the condition of the pipe a foot or so at either side of it. All such evidence is useful in determining to what extent the trouble may have been due to current from the electric road.

"The voltmeter readings along River street, Mattapan, a location of the Norfolk Suburban Street Railway, and the fact that in many places between Blue Hill avenue and the Hyde Park boundary the ground is apt to be muddy for a considerable length of time after wet weather, led us to suspect that there might be trouble from electrolysis in this district. In two out of four excavations the corrosion was quite marked; in the third noticeable, but in the fourth almost imperceptible. The serious trouble threatened in the first two instances may be due to past conditions, but we think more likely it is owing to recent ones, because last autumn's readings in this locality were larger than heretofore, a fact that may be partially accounted for by the opening of the Boston, Milton & Brockton Street Railway, which uses the Hyde Park power station for feeding its lines in Milton. We know of no actual bursting of water-pipes from electrolysis in this district, but we think the same pipes should be examined next season to see if their condition has changed for the worse.

"A locality in which serious trouble has occurred, and where there promises to be more, is at Fields Corner, Dorchester, particularly along the short section of Park street, between Dorchester avenue and Adams street. Learning that here there had been several cases of service-pipes badly corroded so that they had to be removed and replaced by new ones, we requested that the pipes be exposed in several places on Park street and on the south side of the street where, in order to connect the houses with the water-main they run beneath the tracks and beneath the buried return feeders of the Boston Elevated Railway. Two representatives of that company examined the pipes with us. We give the data from our note-book as follows: November 25, 1899, 11 A.M., Park street, Dorchester. Service to No. 119. Pipe five feet down in somewhat damp gravel. Reading from pipe to ground (different places) +1 to +1.5 volts. Very marked corrosion, about $\frac{1}{16}$ inch deep, along the $2\frac{1}{2}$ feet of pipe that was exposed. A dark purple scale.

"Service to No. 101. Pipe 5 feet down, in damp clay. Reading from pipe to ground +1 volt (in various places).

Reading from pipe to rail +2. General corrosion, about $\frac{1}{16}$ inch deep, along most of the 10 feet of pipe that was exposed. Whitish in color. Pipe was laid about one month ago.

"Service to No. 129. Pipe 5 to 6 feet down, in damp gravel. Reading from pipe to ground $+\frac{1}{2}$ volt. Reading from pipe to rail $+\frac{1}{2}$ to +1 volt. Very much corrosion, nearly $\frac{1}{8}$ inch deep; caking off in pieces, say 3 inches long by 1 inch wide. Five feet of pipe exposed. Pipe should be taken out.

"Service to No. 121. Pipe 4 feet down in not very damp, clayey gravel. Reading from pipe to ground $+\frac{2}{5}$ volt. Reading from pipe to track $+\frac{2}{5}$ volt. Very much corrosion, almost as much as on service to No. 129. Pipe white on top, purple underneath. Probably corrosion was about $\frac{1}{8}$ inch deep, but most of it had been taken off by workmen.

"There seems to be no question but that the return electric current is doing much damage in this section at least, and we are told of a pipe that gave out near by on Dorchester avenue. The Boston Elevated Railway should, of course, be requested to take radical measures for stopping further damage. It seems to us that the underground feeder return system in all probability is largely the cause of trouble, as the current in the service-pipes which run beneath it finds an easy path through the damp soil and damp woodwork encasing the cement in which the bare returns are laid.

"We did not have excavations made for an examination of the iron water mains, but we strongly recommend that such an examination be made at an early date, for if the mains themselves are badly injured the sooner it is known the better.

"This is hardly the place to discuss what means of remedy should be adopted. Obviously, however, were the returns run in a terra-cotta conduit like the outgoing feeders the current from off the water pipes could not possibly flow on to them directly. This would doubtless relieve the situation to some extent, but since the electric car tracks run through that section of Park street where we have found the service pipes so much injured it might be necessary to take still further measures to effect a complete remedy."

“VOLTMETER READINGS ALONG SECTIONS OF TRACK.

“For the purpose of ascertaining in a general way the quality of rail-bonding, we took voltmeter readings along sections of track varying in length from 1,000 feet over 2,500 feet. We did this also in our investigation for the previous year, and we give the results, tabulated, in *Appendix D*, and in diagram form in *Appendix E*, reducing them to readings per 100 feet to allow of comparison. We have recorded the maximum readings when there was a fluctuation, and, for convenience, we have recorded only the approximate values. It will be noted that .3 volts per 100 feet is the highest maximum recorded and .008 per 100 feet the lowest. .3 volt per 100 feet is at the rate of over 15 volts to the mile, which is, of course, high, the averages for all the readings being .085 in 1899, and .035 in 1898 (when much fewer readings were taken).

“We have as yet done hardly more with this data than to use it for reference and comparison. In an examination for another city in 1893, where in one case we found a fall of potential of 7 volts per 100 feet, there was clearly evidence of neglected rail-bonding. In our report of that examination we took the somewhat arbitrary standard of .1 volt per 100 feet, and said that in places where the readings showed a difference of potential to be higher than this ‘the bonding is defective somewhere within the given interval.’”

“VOLTMETER READINGS ACROSS BOUNDARIES.

“We give in *Appendix F* the readings between Boston water-pipes and those of adjoining places for 1899 and 1898, recorded to approximate values. At the Hyde Park boundaries only are the readings particularly high, showing that the current has a tendency to flow off in large quantities from the Boston pipes. A further study along the Norfolk Suburban Street Railway on River street and Hyde Park avenue should be made, as on account of new railways installed on the same system the conditions are likely to change for the worse. Meantime, that company should be notified of the danger that threatens, and is already apparent from an insufficient return system.

“In *Appendix G* are voltmeter readings between hydrants and rails in Boston and in other cities and towns on either side of boundaries, which should be considered in connection with the above, as they are a check upon them. In the case of the Dorchester and Hyde Park boundaries, for instance, they confirm the indications of a large flow of current off the Boston pipes and through the earth on to the Hyde Park pipes.

“READINGS ON METROPOLITAN WATER WORKS SYSTEM.

“We give in *Appendix H (a)* the tabulated voltmeter readings between the Metropolitan Water Works piping system and the Boston piping system, and also between the former and the Milton piping system; *(b)* the readings between the Metropolitan Water Works system and the street railway tracks.

“These readings were made on October 25, 1899, in co-operation with the Metropolitan Water Board. They show that the Metropolitan pipes carry a large quantity of current in certain localities. By a further study the pipes of that system may be found to assist in carrying the current from the Milton system, and thus to account for the large flow of current off the Boston pipes in the Mattapan district.

“We know of no specific injury, however, which has been done to the Metropolitan water-pipes by the electric current in the neighborhood of Boston; but there might be such serious difficulties, should corrosion thus occur, that we strongly recommend the continued co-operation in watching for possible trouble that may arise.

“SUMMARY AND CONCLUSION.

“In general, we think the City of Boston is comparatively free from injury to water-pipes due to electrolytic corrosion, considering heavy electric traffic on the street railway system. The serious trouble in Dorchester seems to be due not to negligence, but to conditions arising in spite of an effort to avoid them, and which cannot be fully accounted for as yet. The injury to the service-pipes in Mattapan seems to be largely due to conditions that have arisen within a year. The Norfolk Suburban Street Railway Company should be notified that its return system threatens serious trouble.”

Respectfully submitted,

WILLIAM JACKSON,
City Engineer.

ALPHABETICAL LIST OF STREETS IN APPENDIX A.

	Page		Page
Adams	139	Dorchester	129
Alford	141	Dorchester ave., 127, 129, 138	
Ashland	143	139, 140, 142	
Atlantic ave.	125	Dover	127
Atlantic	142	Dudley	135, 136, 138
Bartlett	135	E. Broadway	129
Beach	125	E. Eighth	129, 130
Beacon	132, 135	E. Third	129
Beech	143	E. Fourth	129, 130
Belgrade ave.	143	E. Sixth	130
Bennington	123, 141	E. Seventh	129, 130
Berkeley	126	Eliot	127
Beverly	126	Eliot sq.	136
Blue Hill ave.	135, 140, 141	Emerson	130
Border	123	Essex	127
Bowdoin	138	Federal	127
Bowdoin sq.	126	Geneva ave.	138
Boylston	126, 132	Grove	143
Brandon	143	Hampden	136
Brighton ave.	133	Hancock	138
Brighton	124	Hancock (Quincy)	142
Broadway	126, 129	Hanover	127
Broadway (Charlestown)	124	Harrison ave., 127, 128, 131	
Bunker Hill	124	136	
Caldwell	124	Harvard ave.	134
Cambridge	126	Haverhill	128
Cambridge (Brighton)	133	Haymarket sq.	128
Cambridge (Charlestown)	124	High	128
Canal	126	Humboldt ave.	136
Causeway	126	Huntington ave., 132, 133, 136	
Centre	135, 143	Hyde Park ave.	142
Chambers	126	Kneeland	128
Chardon	126	Leverett	128
Charles	126	Lexington	123
Chauncy	126	Longwood ave.	133
Chelsea (Charlestown), 124, 125		Main	125
Chelsea (East Boston)	123	Market	134
Chestnut Hill ave	135	Massachusetts ave.	131, 133
Columbia	138	Meridian	123
Columbus ave.	126, 131, 135	Merrimac	126
Commercial	126, 127	Milk	128
Commonwealth ave., 132, 133		Neponset ave.	139, 140
134, 135		Norfolk	138
Congress	127	Northampton	131
Dartmouth	132	N. Beacon	134, 141
Dearborn	135	Oakland	143

	Page		Page
Orleans	123	Tremont row	128
Park	138, 140	Tremont (Brighton) . . .	134
Perkins	125	Walley	141
Pleasant	128, 138	Walnut ave.	137
Portland	128	Walnut	140
River	142	Warren (Charlestown) . .	125
Roxbury	136	Warren (Roxbury) . . .	137
Saratoga	123, 124	Washington, 128, 129, 131, 132	
Savin Hill ave.	138	134, 137, 139, 142, 143	
Shawmut ave., 128, 131, 132		Washington (Dorchester), 138	
	136	139, 142	
South	128, 136, 143	Washington (Brighton), 134	
Spring	143, 144	Webster	124
Squantum	142	W. Broadway	129, 130
State	128	W. Eighth	130
Stoughton	138	Western ave.	134
Summer	128	W. Ninth	130
Sumner	124	W. Seventh	130
Tremont, 128, 132, 136, 137		W. Sixth	130

*Appendix A.***Readings between Piping Systems and Street Car Track
in City of Boston.****DISTRICT I. (EAST BOSTON.)**

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Bennington and London.....	+0	-0	.....	-0	.....	-0
" " Brooks.....	+ .5	-0	.....	- .5	.....	-0
" " Putnam.....	+ .5	-0	.....	-0	.....	-0
" " Prescott.....	+0	-0	.....	-0	.....	-0
Border Street, at Ferry-house.....					+0	.....
Chelsea and Saratoga. <i>See Saratoga.</i>		-				
Lexington and Meridian. <i>See Meridian.</i>						
Lexington and Marion.....		- .5	+0	- .5	.....	-0
" " Brooks.....		- .5	.....	- .5	.....	- .5
" " Putnam.....		- .5	+ .5	-0	.....	-0
" " Prescott.....	+1	.....	+1	.....	+0	-0
" opp. Car House, Eagle sq.	+0	.....	+0	.....	.....	- .5
Meridian and Paris.....		- .5	.....	- .5	.....	- .5
" " London.....		- .5	+0	-0	.....	-0
" " Saratoga.....		-0	+ .5	-0	.....	- .5
" " Lexington.....		- .5	.....	- .5	+0	-0
" " Monmouth.....		- .5	+ .5	- .5	+ .5	-0
" " W. Eagle.....		-0	.....	-1	.....	- .5
" " Condor.....		- .5	.....	-1	.....	- .5
Orleans and Webster. <i>See Webster.</i>						
Saratoga and Meridian. <i>See Meridian.</i>						
Saratoga and Chelsea and Shelby.....		-0	+0	-0	.....	-0
" " Bremen.....		-0	.....	.....	.....	.....
" " Swift.....	+0	-0	+0	-0	.....	- .5
" " Moore.....	+0	-0	+ .5	- .5	.....	- .5

DISTRICT I. (EAST BOSTON.)—*Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Saratoga, 1 N. of Wordsworth.....	+ .5	— .5	+ .5	.....	.....	—0
“ 2 So. of Ford.....	.....	.....	+ .5	— .5	.....	.....
“ 1 “ “.....	+ .5	— .5	+ .5	— .5	+ .5	.....
“ and Ford.....	.....	.....	+1	.....	+ .5	.....
Sumner and Lewis.....	+ .5	—0	.....	— .5	.....	+ .5
“ “ 1 E. of Orleans.....	.....	—1	+0	— .5	.....	— .5
“ “ 1 W. of Seaver.....	.....	— .5	.....	—0	.....	— .5
“ “ Webster.....	.....	—1	.....	— .5	.....	— .5
Webster and Orleans.....	.....	—1.5	+ .5	— .5	+0	— .5
“ “ 1 W. of Cottage.....	.....	— .5	.....	—0	.....	.....
“ opp. Brigham.....	.....	—2	.....	— .5	.....	—2
“ and Sumner. <i>See</i> Sumner.	.....	.....	.....	.....	.....	.....
Average.....	+ .32	— .43	+ .37	— .35	+ .21	— .33

DISTRICT II. (MOST OF CHARLESTOWN.)

Brighton and Perkins.....	+ .5	.....	+ .5	—1	+0	—0
Broadway and Caldwell.....	.....	.....	+1	.....	+ .5	—0
Bunker Hill and Main.....	.....	.....	.....	.....	+ .5	.....
“ “ Baldwin.....	.....	.....	+ .5	.....	+ .5	.....
“ “ St. Martin.....	.....	.....	+0	.....	.....	—0
“ “ Belmont.....	.....	.....	.....	—0	.....	—0
“ “ Cook or Sullivan.....	.....	—8	+0	— .5	+ .5	—0
“ “ Elm.....	.....	—4	+0	— .5	+0	.....
“ “ Polk.....	.....	—6	+ .5	— .5	+0	—0
“ “ Monument.....	.....	—3	+ .5	— .5	+ .5	— .5
“ “ Tufts.....	.....	—2	.....	—1	+ .5	— .5
Bunker Hill and Chelsea. <i>See</i> Chelsea.	.....	.....	.....	.....	.....	.....
Caldwell and Broadway. <i>See</i> Broadway.	.....	.....	.....	.....	.....	.....
Caldwell and Perkins.....	+1	.....	+ .5	.....	+0	—0
Caldwell, half-way between Perkins and Broadway.....	+1	.....	+ .5	.....	+ .5	.....
Cambridge and Main. <i>See</i> Main.
“ “ Parker.....	+ .5	— .5	+ .5	— .5
“ “ Crescent.....	+ .5	—1
Chelsea and Joiner.....	—3	—4	— .5

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DISTRICT II. (MOST OF CHARLESTOWN.)—*Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Chelsea and Henley	—3	.....	—2	+0	— .5	
“ “ Prospect.....	—2	.....	—2	.....	—1	
“ “ Bunker Hill.....	—2	+1	.....	+ .5	— .5	
“ “ Bainbridge.....	—1.5	+0	—1.5	.....	—1	
“ “ Medford.....	—1.5	+1	— .5	.....	—1	
City sq. and Main. <i>See Main.</i>						
Main and west side of City sq.....	—2	.....	—2	+ .5	— .5	
“ “ Pleasant.....	—2.5	.....	—1	.....	—1	
“ “ Nash row or Wood.....	—2	.....	—1.5	+ .5	—0	
“ “ Phipps.....	—1.5	.....	—1.5	.....	— .5	
“ “ Lincoln.....	—1.5	.....	.....	.....	.....
“ “ Mead.....	—1.5	.....	—1	+0	— .5	
“ “ Middlesex.....	+0	— .5	+ .5	— .5	— .5	
“ north of Albion pl.....	+1	.....	+ .5	— .5	+ .5	— .5
“ and Allen.....	+ .5	.....	—1	.....	+ .5	.....
“ “ Furbush ct.....	+2	.....	+1	.....	+1	.....
“ “ Cambridge.....	+1	.....	.....	.....	.....	.....
Main and Alford. <i>See Alford.</i>						
Perkins and Brighton. <i>See Brighton.</i>						
Perkins and Caldwell. <i>See Caldwell.</i>						
Warren and Henley	—3	.....	—1.5	.....	—1.5	
Average.....	+ .83	—2.52	+ .53	—1.18	+ .37	— .54

DISTRICT III. (CITY PROPER.)

Atlantic ave. and Kneeland	— .5	.....	—1	+ .5	.....
“ “ Essex.....	— .5	.....	—0	.....	.....
“ “ Pearl.....	—2	.....	—1	.....	—5
“ “ 150 south of Broad.....	—1.5	.....	.....	.....	.....
“ “ Broad and High.....	.....	.....	—1.5	.....	—2.5
“ “ Central.....	—1.5	.....	—1.5	.....	—1.5
“ “ Richmond.....	—1.5	.....	—1.5	.....	—2
“ “ Commercial.....	.....	.....	.....	.....	—2
Beach and Harrison ave. <i>See Harrison ave.</i>					
Beach and Kingston.....	— .5	.....	— .5	.....	— .5
“ “ South.....	— .5	.....	— .5	.....	— .5

DISTRICT III. (CITY PROPER.)—Continued.

STREETS.	1898.	1899.	
		Spring.	Autumn.
Berkeley and Tremont. <i>See</i> Tremont.			
“ “ Columbus ave. <i>See</i> Columbus ave.			
Beverly and Causeway. <i>See</i> Causeway.			
Beverly, 100 yds. N. of Causeway	—2		
Bowdoin sq., Court and Chardon	—1.5	—1	—1
Boylston and Washington. <i>See</i> Washington.			
Boylston and Tremont			+0
“ Charles, and Park sq.	— .5	— .5	— .5
“ opp. Subway, or west of Church	—1	—1	—1
Broadway and Washington. <i>See</i> Washington.			
Broadway and Harrison ave. <i>See</i> Harrison ave.			
Cambridge and South Russell	—1	— .5	— .5
“ “ Charles. <i>See</i> Charles.			
Canal and Haymarket sq. <i>See</i> Haymarket sq.			
Canal and Causeway. <i>See</i> Causeway.			
Causeway and Beverly	—1	—1	
“ “ Haverhill. <i>See</i> Haverhill.			
“ “ Canal		— .5	—1
“ Staniford, and Merrimac	— .5	— .5	—1
Chambers and Eaton	—1.5	— .5	—1
Chardon and Portland. <i>See</i> Portland.			
Charles and Boylston. <i>See</i> Boylston.			
“ “ Beacon	—1	—1	— .5
“ “ Pinckney	— .5	— .5	— .5
“ “ Cambridge	— .5	— .5	— .5
“ “ Allen	— .5	— .5	— .5
“ “ Leverett. <i>See</i> Leverett.			
Chauncy and Bedford	+0	+0	—0
“ “ Essex	+ .5	+0	+ .5
Columbus ave. and Berkeley	— .5	— .5	— .5
Commercial and Atlantic ave. <i>See</i> Atlantic ave.			
“ “ Clark.	— .5	—1	

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DISTRICT III. (CITY PROPER.)—Continued.

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Commercial and Hanover.....	—1	—1	—1
“ “ 250 ft. E. of Charter.....	—1	.....	— .5	.....	.....	.....
“ “ Prince.....	—1	.....	—1	.....	—1	.....
Congress and State. <i>See State.</i>						
Dorchester ave. and Summer. <i>See Summer.</i>						
Dorchester ave. and Mt. Washington ave.....	.....	.....	+ .5	— .5	.....	—1
Dorchester ave. and Kneeland. <i>See Atlantic ave.</i>						
Dorchester ave. 2 S. of Kneeland....	— .5	.....	.....	.....	.....	.....
“ “ 1 N. of Foundry	— .5	.....	+0	—0	.....	—1
“ “ and W. First.....	— .5	.....	.....	—1	.....	— .5
“ “ and W. Broadway..	+ .5	—0	+0	—0	.....	— .5
Dover and Tremont. <i>See Tremont, Berkeley, and Dover.</i>						
Dover and Shawmut. <i>See Shawmut ave.</i>						
Dover and Washington. <i>See Washington.</i>						
Dover, bet. Washington and Harrison ave.....	.....	.....	+1	.....	.....	.....
Dover and Harrison. <i>See Harrison ave.</i>						
Dover and Albany.....	.....	.....	+1	.....	.....	.....
Ellot and Tremont. <i>See Tremont.</i>						
Essex and Chauncy. <i>See Chauncy.</i>						
Federal and Milk. <i>See Milk.</i>						
“ “ High.....	— .5	.....	.....	—0	.....	—0
Hanover and Tremont. <i>See Tremont row.</i>						
Hanover and Washington. <i>See Washington.</i>						
Hanover and Prince.....	—1.5	.....	.....	—1	.....	—1
“ “ Commercial. <i>See Commercial.</i>						
Harrison ave. and Beach.....	— .5	.....	.....	— .5	.....	— .5
“ “ “ Kneeland.....	— .5	.....	.....	—0	.....	— .5
“ “ “ Oak.....	+0	.....	+0	—0	+0	.....
“ “ “ Broadway.....	+0	.....	.....	+0	+0	—0
“ “ “ Onelda.....	+0	.....	+0	.....	+0	.....
“ “ “ Rochester.....	+1	.....	+1	.....	+1	.....

DISTRICT III. (CITY PROPER.)—Continued.

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Harrison ave. and Dover.....	+ .5	.....	+1	.....	+1	.....
Haverhill and Causeway.....	—1	.....		.....		.....
Haymarket sq. and Canal.....	—1	.....		.....		—1
High and Federal. <i>See</i> Federal.						
Kingston and Beach. <i>See</i> Beach.						
Kneeland and Harrison ave. <i>See</i> Harrison ave.						
Kneeland and Atlantic ave. <i>See</i> At- lantic ave.						
Kneeland and Dorchester ave. <i>See</i> Dorchester ave.						
Leverett and Cotting.....	— .5	.....	— .5	.....	— .5	.....
“ “ Charles.....	— .5	.....	— .5	.....	— .5	.....
Milk and Federal.....	—1	.....	— .5	.....	— .5	.....
Pleasant and Shawmut ave. <i>See</i> Shawmut ave.						
Portland, Chardon and Merrimac....	—1	.....	— .5	.....	—1	.....
Shawmut ave., Pleasant and Tremont	+ .5	.....	—0	.....	+0	.....
“ “ and Corning.....	+ .5	.....	+ .5	.....	+0	.....
“ “ “ Castle.....		.....	+0	.....	—0	.....
“ “ “ 1 N. of Lucas....	+1.5	.....	+ .5	.....	+ .5	.....
“ “ “ Dover.....		.....	+1	.....	+1	.....
South and Beach. <i>See</i> Beach.						
State and Congress.....	—1	.....	—1	.....	—1	.....
Summer and Washington. <i>See</i> Wash- ington.						
Summer and Dorchester ave.....		.....	—1	.....	—2	.....
Tremont and Boylston. <i>See</i> Boylston.						
“ “ Elliot.....	— .5	.....	—0	.....	—0	.....
“ “ Shawmut ave. <i>See</i> Shaw- mut ave.						
“ E. of Church.....	+ .5	.....	+0	.....	+ .5	.....
“ and Compton.....	+ .5	.....	+ .5	.....	— .5	.....
“ “ Dover.....	+1	.....	+ .5	.....	+0	.....
Tremont row and Hanover.....	—1.5	.....	—1	.....	—1	.....
Washington and Hanover.....	—1.5	.....	—1	.....	—1	.....
“ “ Water.....	—1	—1	—1
“ “ Summer.....	— .5	—0	— .5
“ Boylston and Essex.....	+ .5	+0	+ .5
“ and Kneeland.....		— .5

WATER DEPARTMENT.

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DISTRICT III. (CITY PROPER.) — *Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Washington and Harvard.....		—1	— .5	—1
“ “ Broadway.....	+ .5	.....	+0	.....	+0	.....
“ “ Dover.....	+1.5	.....	+1.5	.....	+1	.....
West Broadway and Dorchester ave. See Dorchester ave.						
Average.....	.59	.88	.43	.59	.38	.81

DISTRICT IV. (SOUTH BOSTON.)

Broadway. See E. Broadway and W. Broadway.						
Dorchester st. and Dorchester ave. See Dorchester ave.						
Dorchester and Ward		—1				
“ east of Jenkins.....				— .5		— .5
“ and Newman.....		—1		—1.5		— .5
“ “ E. Eighth. See E. Eighth.						
“ “ W. Sixth. See W. Sixth.						
Dorchester ave. and W. Broadway. See under City Proper.						
Dorchester ave. and W. Fifth				—1		— .5
“ “ “ W. Sixth. See W. Sixth.						
“ “ “ D.....		— .5				
“ “ 300 S. from crossing		— .5		— .5		—1
“ “ and D and W. of D (Norway Iron Wks)		— .5		— .5		—1
“ “ and Woodward.....		— .5		—1		— .5
“ “ “ Dorchester.....		—1		— .5		—1
E. and W. Seventh. See W. Seventh and E.						
E. and W. Eighth. See W. Eighth and E.						
E. Broadway and E		— .5		—0		— .5
“ “ “ Emerson		— .5	+0	— .5		— .5
“ “ “ L		—2		—2		—1.5
“ “ “ K. See K.						
E. Third and Emerson		— .5		—1		—1.5
“ Fourth “ L		—2.		—2		—1.5
“ “ “ N		— .5		—1		—1

DISTRICT IV. (SOUTH BOSTON.) — *Concluded.*

STREETS.	1896.	1899.	
		Spring.	Autumn.
E. Fourth and P	—1	—1.5	—1.5
" Sixth " L	—1	—2	—1.5
" " " N	—1	—1	—3
" " " P	—2	—3	—1.5
E. Seventh and K. <i>See K and E. Seventh.</i>			
E. Eighth and H	—1.5	— .5	— .5
" " " Atlantic (Corrington)	—1	—1	—1
" " " Knowlton	—1	—1	—1
" " " Dorchester	—1	—1	—1
Emerson and E. Broadway. <i>See E. Broadway.</i>			
Emerson and E. Third. <i>See E. Third</i>			
K and E. Broadway		—1	
" " " Seventh	—1.5	—1	—1
L and E. Broadway. <i>See E. Broadway.</i>			
L and E. Fourth. <i>See E. Fourth and L.</i>			
P " " " <i>See E. Fourth and P.</i>			
P " " Sixth. <i>See E. Sixth and P.</i>			
Q " " Fifth			—1
W. Broadway and Dorchester ave. <i>See Dorchester ave. under City Proper.</i>			
W. Broadway and A	— .5	+ .5	+0 — .5
" " " C	— .5	—0	— .5
" " " E	— .5	— .5	—1
" " W. of Dorchester	— .5		
W. Sixth and Dorchester ave	—1	—1	—1
" " " C	— .5	—0	—1
" " between E and D	— .5	—0	— .5
" " and Dorchester		— .5	— .5
W. Seventh and E	—1	— .5	—1.5
W. Eighth and E	— .5		
W. Ninth and Frederick	—1	— .5	—1
Average	— .89	+ .25 — .95	+0 —1.0

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DISTRICT V. (HARRISON AVENUE, PART OF SOUTH END.)

STREETS.	1908.		1899.			
			Spring.		Autumn.	
Harrison ave and Perry.....	+1.5	.....	+2	.....	+2	
“ “ 1 N. of Savoy.....	+1.5	.....	+2	.....	+2	
“ “ and Rollins.....	+2	.....	+2	.....	+1.5	
“ “ “ Union Park.....	+2	.....	+2	.....	+1.5	
“ “ “ Malden.....	+2	.....	+3.5	.....	+2.5	
“ “ “ Plympton.....	+2	.....	+2.5	.....	+2	
“ “ “ E. Dedham.....	+2.5	.....	+2.5	.....	+2.5	
“ “ “ E. Canton.....	+2.5	.....	+3	.....	+2.5	.....
“ “ “ E. Brookline.....	+2.5	.....	+3	.....	+2	.....
“ “ “ Sharon.....	+2	.....	+2	.....	+1.5	.....
“ “ “ E. Newton.....	+2	.....	+2	.....	+2	.....
“ “ “ Stoughton.....	+2	.....	+2	.....	+1	.....
“ “ “ E. Concord.....	+2	.....	+2	.....	+1.5	.....
“ “ “ Worcester sq.....	+1.5	.....	+1.5	.....	+1	.....
“ “ “ E. Springfield.....	+1.5	.....	+1	.....	+5	.....
“ “ “ Massachusetts ave.....	+1.5	.....	+5	.....	+5	.....
“ “ “ Northampton.....	+1	.....	+0	—0	.....	—0
Average.....	+1.88		+1.90		+1.66	

DISTRICT VI. (MOST OF SOUTH END.)

Columbus ave., Chandler and Dartmouth.....	—1	.....	+0	—5	+0	—5
Columbus ave., Warren ave., and W. Newton.....	—1	.....	+0	—1	.....	—5
Columbus ave., Massachusetts ave. See Massachusetts ave.						
Massachusetts ave. and Columbus ave.....	—1	.....	—1	.....	—1	
Northampton and Tremont. See Tremont.						
Shawmut ave. See Shawmut ave.						
Washington. See Washington.						
Harrison ave. See Harrison ave.						
Shawmut ave. and Dwight.....	+1	.....	+1.5	.....	+1	.....
“ “ “ Hanson.....	+1	.....	+1.5	.....	+1	.....
“ “ “ Union Park.....	+1	.....	+1	.....	+5	.....
“ “ “ W. Dedham.....	+1	.....	+1.5	.....	+1	.....

DISTRICT VI. (MOST OF SOUTH END.)— *Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Shawmut ave. and W. Brookline.....	+1	.....	+1	.....	+5	.....
“ “ “ Rutland.....	+5	.....	+5	.....	+5	.....
“ “ “ Worcester.....	+5	—0	+5	.....	+0	.....
“ “ “ Northampton .....	.....	—0	+0	—0	.....	—0
Tremont and Union Park.....	+5	.....	+1	.....	.....	—0
“ “ W. Dedham .....	.....	.....	.....	—1	.....	.....
“ “ W. Brookline.....	.....	—5	.....	—1	.....	—0
“ “ W. Concord.....	.....	—5	.....	—1	.....	—5
“ “ Northampton.....	.....	—1	.....	—1	.....	—5
Washington and Acton.....	+1.5	.....	.....	.....	+1	.....
“ “ Waltham.....	+2	.....	+2	.....	+1	.....
“ “ Union Park.....	+1.5	.....	+1.5	.....	+1	.....
“ “ W. Canton.....	.....	.....	+2	.....	+1	.....
Washington and Blackstone sq. (drinking fountain)	+5	.....	+1	.....	+5	.....
Washington and Rutland.....	.....	.....	+5	.....	.....	.....
“ “ E. Concord.....	+5	.....	+5	.....	+0	—0
“ “ E. Springfield.....	.....	.....	+5	.....	+0	—0
“ “ Northampton	+5	.....	+0	.....	+0	.....
Average.....	+90	—63	+87	—81	+56	—30

DISTRICT VII. (BACK BAY.)

Beacon st. and Massachusetts ave...	.....	—1.5	.....	—1	.....	—2.5
Beacon st. E. cor. Commonwealth ave.....	.....	—1.5	.....	—1	.....	—1
Beacon and Mountfort .....	.....	.....	.....	—3.5	.....	—2.5
“ “ St. Mary's.....	.....	—3	.....	.....	.....	—3.5
Boylston and Clarendon.....	.....	—5	.....	.....	.....	—1
“ “ Dartmouth.....	.....	.....	.....	—1	.....	.....
“ “ 1 W. of Exeter.....	.....	—1	.....	—1	.....	—1
Boylston and Massachusetts ave. <i>See</i> Massachusetts ave.	.....	.....	.....	.....	.....	.....
Commonwealth ave. and Beacon. <i>See</i> Beacon	.....	.....	.....	.....	.....	.....
Commonwealth ave. and Beacon. E. of St. Mary's .....	.....	.....	.....	.....	.....	—5
Dartmouth and Boylston. <i>See</i> Boyl- ston.	.....	.....	.....	.....	.....	.....
Huntington ave. 1 W. of Irvington.	.....	—1	.....	.....	.....	—1

DISTRICT VII. (BACK BAY.)—*Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Huntington ave. 1 W. of W. Newton	—1			—1.5		—1.5
Huntington ave. Massachusetts ave. See Massachusetts ave.						
Huntington ave. 1 W. of Bryant.....	—1.5			—1.5		— .5
“ “ 1 E. of Ruggles.....	—2			—1.5		—1.5
“ “ Longwood ave.....	—1.5			—1.5		—1
Longwood ave. and Huntington ave. See Huntington ave.						
Autumn.....	—3			— .5		—1
Massachusetts av. and Huntington av.	—1.5			—1		—1.5
“ “ “ Norway.....	—1.5			—1		—1
“ “ “ Boylston.....	—2			—2		—1.5
“ “ “ Beacon. See Beacon.						
Average		—1.6		—1.38		—1.4

DISTRICT VIII. (MOST OF BRIGHTON.)

Brighton ave., 1 W. of Commonwealth ave.....				— .5		—2.5
“ “ and Harvard ave. See Harvard ave.						
“ “ 1 S. E. of Cambridge....	+ .5	—0				
“ “ S. E. cor.....			—1.			
Cambridge. Last in Boston.....		— .5	+ .5	—0		—1
“ 1 E. of N. Harvard.....		— .5		—1		—1
“ 1 E. of Mansfield.....		— .5		—1		—0
“ 1 N. E. Harvard ave.	+ .5	—0		— .5		— .5
“ Harvard ave. See Har- vard ave.						
“ 1 S. E. of Harvard ave..	+ .5	—0	+ .5	—0		—1
“ 2 “ “ “	+0	— .5				
“ 1 E. of Union sq.....				—0		— .5
“ Brighton ave. See Brighton ave.						
“ N. Beacon. See N. Bea- con.						
“ Eleanor.....	+0	— .5	+0	—0		—1
“ N. E. of Washington....	+ .5	—0	+1	—0		— .5
Commonwealth ave. Essex.....		—1				—2.5
“ “ St. Paul.....						—2

DISTRICT VIII. (MOST OF BRIGHTON.)—*Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Commonwealth ave., W. of Babcock, cor. Winslow road .....	.....	-1	.....	-1	.....	-1.5
Harvard ave. and Cambridge .....	.....	.....	+0	-0	.....	-1
“ “ 1 S. of Cambridge.....	+ .5	-0	.....	.....	.....	.....
“ “ Brighton ave.....	.....	- .5	+0	- .5	.....	-1
“ “ 1 North of Common- wealth ave.....	.....	.....	.....	-1	.....	-2
“ “ Last in Boston.....	.....	.....	.....	-1	.....	-1
Market. 1 S. of Waverly	+ .5	.....	+ .5	.....	+0	-0
“ Wicklow .....	.....	.....	.....	- .5	.....	- .5
“ 1 S. of Wicklow.....	+ .5	-0	.....	.....	.....	.....
“ North Beacon. <i>See</i> N. Bea- con.	.....	.....	.....	.....	.....	.....
“ Mapleton.....	.....	.....	+ .5	- .5	.....	-0
“ Washington. <i>See</i> Washing- ton.	.....	.....	.....	.....	.....	.....
North Beacon and Cambridge	+ .5	- .5	.....	- .5	.....	-1
“ “ “ Market.....	+ .5	-0	+ .5	- .5	+0	-1
Tremont. Last in Boston.....	+ .5	- .5	.....	- .5	.....	- .5
Washington, opposite Market.....	+0	- .5	+ .5	- .5	+0	-0
“ 1 N. E. of Lake.....	+ .5	-0	+0	-0	.....	- .5
“ Nonantum.....	+0	- .5	.....	- .5	.....	- .5
Western ave. Last in Boston.....	.....	.....	+1	.....	+1	.....
“ “ 2 from Cambridge line	+1	.....	+1	.....	+1	.....
“ “ 5 “ “	+1	.....	.....	.....	+ .5	.....
“ “ Upton court (Grant pl.) .....	.....	.....	+1.5	.....	+0	.....
“ “ 2 E. of N. Harvard....	+1.5	.....	+1.5	.....	+1	.....
“ “ 2 W. of N. Harvard....	+1.5	.....	+2	.....	+1	.....
“ “ Telford.....	.....	.....	+1	.....	+1	.....
“ “ 3 W. of Everett	+1	.....	.....	.....	.....	.....
“ “ 1 E. of Waverley .....	.....	.....	+1	.....	+ .5	.....
“ “ 1 E. of Market.....	+1	.....	+1	.....	+ .5	.....
Average.....	+ .60	- .34	+ .74	- .48	+ .59	- .92

DISTRICT IX. (RESERVOIR PART OF BRIGHTON.)

STREETS.	1898.	1899.	
		Spring.	Autumn.
Beacon street, 1 st. in Brighton.....			—4
Chestnut Hill ave. and Englewood ave.	—6	—1	—5
Commonwealth ave., 1 E. of Foster...		—4	—5
“ “ Last in Boston..	—6	—5	—3
Average.....	—6.0	—3.33	—4.25

DISTRICT X. (ROXBURY AND PART OF WEST ROXBURY.)

Bartlett and Dudley.....	—1			
Blue Hill ave., S. of Dudley.....	—1	—1		—1
“ “ “ Woodville.....	—1.5	+0	— .5	—1
“ “ “ Maywood.....	—2.5		—3	—1
Blue Hill ave.—Otisfield.....	—1		—1	—1
“ “ Washington and Warren.....	+0	—1	— .5	— .5
Centre and Cedar			—1	—1
“ “ N. of Old Heath.....	+2			
“ “ Columbus ave. See Co- lumbus ave.				
Centre and N. of Bickford.....	—8		—2	—1.5
Centre and Perkins.....	—8		—5	—2
“ “ Lakeville pl.....	—4		—3	—2
“ “ Thomas	—3		—4	—4
Columbus ave. and Davenport	— .5		— .5	— .5
“ “ Ruggles.....	—1		— .5	—1
Columbus ave. and Station, Tremont, or Roxbury Crossing.....	—1.5		—1	—1.5
Columbus ave. and Cedar			—1	—1
“ “ “ New Heath.....			—1	—1.5
“ “ “ Centre.....			—1.5	—1.5
“ “ “ one-half way be- tween Centre and Washington.....			—1	—1.5
Columbus ave. and Washington. See Washington.				
Columbus ave. and Walnut ave.....			—1	— .5
Dearborn and Dudley. See Dudley.				
Dudley and Washington	— .5		— .5	— .5
“ “ Warren	— .5			— .5
Dudley and Harrison ave. See Har- rison ave.				

DISTRICT X. (ROXBURY AND PART OF WEST ROXBURY.)—Continued.

STREETS.	1898.	1899.	
		Spring.	Autumn.
Dudley and Dearborn.....	.....	.....	— .5
“ “ Hampden. <i>See</i> Hampden.	.....	.....	.....
Dudley and Blue Hill ave. <i>See</i> Blue Hill ave.	.....	.....	.....
Eliot sq., opp. Highland.....	.....	—1	—1
Eustis and Washington. <i>See</i> Washington.	.....	.....	.....
Eustis and Harrison ave. <i>See</i> Harrison ave.	.....	.....	.....
Guild row and Roxbury. <i>See</i> Roxbury.	.....	.....	.....
Guild row, Washington, and Dudley. <i>See</i> Washington.	.....	.....	.....
Hampden and Albany.....	+ .5	+0	+0
“ “ Kemble and Adams ..	+ .5	— .5	— .5
“ “ Dudley.....	—1	—1	—1.5
Harrison ave. and E. Lenox	+ .5	+ .5	+0
“ “ “ Hunneman.....	—1.5	+0	—0
“ “ “ Eustis.....	— .5	+0	—0
“ “ “ Taber .....	.....	— .5	— .5
“ “ “ Dudley.....	—1	.....	—1
Humboldt ave. and Waumbeck .....	.....	—1.5	—1
“ “ “ I N. of Seaver....	.....	—1	—1
Huntington ave. and Tremont. <i>See</i> Tremont	.....	.....	.....
Huntington ave. and Heath.....	—1.5	—1.5	—2.5
Roxbury and Elmwood	—1.5	.....	—1.5
“ “ Guild row.....	.....	— .5	.....
Seaver and Walnut ave. <i>See</i> Columbus ave.	.....	.....	.....
Shawmut ave. and N. and S. of Lenox.....	— .5	+0	—0
“ “ “ Arnold.....	+ .5	+ .5	+0
“ “ “ Sterling.....	+ 0.	+ .5	—0
“ “ “ Ruggles	— .5	+0	— .5
“ “ “ Marvin	— .5	+ .0	—1
South and Child	—2.5	—4	—2
South and Washington. <i>See</i> Washington.	.....	.....	.....
Tremont and Hammond.....	— .5	— .5	— .5
“ “ E. of Sarsfield .....	.....	— .5	— .5

DISTRICT X. (ROXBURY AND PART OF WEST ROXBURY.)—*Concluded.*

STREETS.	1898.	1899.	
		Spring.	Autumn.
Tremont and Culvert (=Whittier).....	-1.5	-1	— .5
“ “ Cottage pl.....		-2	— .5
“ “ Columbus ave. <i>See</i> Columbus ave			
Tremont and Phillips.....	— .5	-1	—1
“ “ St. Alphonsus.....			-1.5
“ “ Huntington ave.....	-1	-1	-1.5
Walnut ave. and Columbus ave. <i>See</i> Columbus ave.			
Warren and Washington. <i>See</i> Washington.			
Warren and Dudley. <i>See</i> Dudley.			
“ “ Moreland.....	— .5	— .5	— .5
“ “ Walnut ave.....		— .5	
“ “ Dunreath.....	-1.5	-1	— .5
“ “ Edgewood.....	-1.5	-1	—1
“ “ Quincy.....	-1	-1	— .5
“ “ Brunswick.....	— .5	-1.5	—1
“ “ Blue Hill ave. <i>See</i> Blue Hill ave., Dorchester.			
Washington and Newcomb.....		— .5	— .5
“ “ Ball.....	-0	— .5	—0
“ “ Eustis.....	— .5	-1	— .5
“ “ Warren and Palmer.....	— .5	— .5	— .5
“ “ Dudley. <i>See</i> Dudley			
“ “ St. James.....	-1	— .5	— .5
“ “ Oakland and Dale..	-1.5	-1	—1
“ “ Kingsbury.....	-1		
“ “ Marcella.....			-1.5
“ “ Dimock.....	-1.5	-1	—1
“ “ Atherton and Columbus ave.....	-2	-1	—1
Washington and Forest Hills st.....	-1.5	-2	—1
“ “ Green.....	+0	-2	—1
“ “ No. Bennet (north end).....	-1	— .5	-2.5
Washington and Morton (Boston Elevated).....	+1	-4	—6
Average.....	— .56	-1.56	—1.06

DISTRICT XI. (PART OF DORCHESTER.)

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Bowdoin and Washington. <i>See</i> Washington.						
Bowdoin and Oakley.....	+0	-1	.....	-.5	+.5	.....
“ “ Geneva ave.....	+1	.....	+.5	-0	+2.5	.....
“ “ Olney.....	+1	.....	+1	.....	+2	.....
“ “ Hamilton.....	+.5	.....	+.5	.....	.....	.....
“ “ Quincy.....	.....	.....	.....	.....	+1	.....
Columbia and Cushing ave.....	+0	-.5	.....	-.5	+1	.....
Columbia and Washington. <i>See</i> Washington.						
Columbia and Blue Hill ave. <i>See</i> Blue Hill ave.						
Dorchester ave. and Dorset (or Locust).....	.....	-1	.....	-1.5	.....	-1
Dorchester ave. and East Cottage....	+.5	-.5	+0	-1	+0.	-1
“ “ “ Savin Hill ave...	+.5	.....	+.5	-0	+.5	.....
Dudley and Shirley.....	.....	-1	.....	-.5	.....	-1.5
“ “ Folsom.....	.....	-1	+0	-1	.....	-1.5
“ “ Monadnock.....	+.5	-.5	+0	-.5	.....	-0
Geneva ave. and Bowdoin. <i>See</i> Bowdoin.						
Geneva ave. and Westville.....	.....	.....	.....	.....	+.5	.....
“ “ “ Tonawanda.....	.....	.....	.....	.....	+.5	.....
“ “ “ Park.....	.....	.....	.....	.....	+1	.....
Hancock and Glendale.....	+.5	.....	+.5	.....	+.5	.....
“ “ Freeport.....	+.5	.....	+0	-.5	+.5	.....
Norfolk and Washington.....	+.5	.....	.....	-1	+.5	.....
“ “ Wentworth.....	+0	-0	.....	-1	+0	-.5
“ “ Capen.....	+1	-1	.....	-2	.....	-2
Park and Geneva ave. <i>See</i> Geneva ave.						
Pleasant and Savin Hill ave.....	+1	.....	+0	-0	+.5	.....
Savin Hill ave. and Dorchester ave. <i>See</i> Dorchester ave.						
Savin Hill ave. and Pleasant. <i>See</i> Pleasant.						
Stoughton and private way (west of Pleasant).....	+.5	-.5	.....	-1	+.5	.....
Washington and Columbia.....	+0	-2	.....	-1	.....	-0
“ “ Lynnville terrace.....	.....	-1	.....	-1	.....	-1
“ “ Faxon.....	.....	-.5	.....	-.5	+0	.....

DISTRICT XI. (PART OF DORCHESTER.) — *Concluded.*

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Washington and Bowdoin.....	.....	—1	.....	— .5	+ .5	.....
“ “ School.....	+0	— .5	+ .5	.....	+ .5	.....
Washington and Coffee pl.....	+5	— .5	+ .5	.....	.....	—0
“ “ Rosedale.....	.....	—1	.....	— .5	+ .5	—1
“ “ Norfolk. <i>See</i> Norfolk.	.....	.....	.....	.....	.....	.....
“ “ Euclid.....	.....	—2	.....	— .5	.....	.....
“ “ Roslin.....	.....	—1	.....	—1	.....	—1
Average.....	.44	.88	.33	.73	.68	.79

DISTRICT XII. (FIELD'S CORNER AND NEPONSET.)

Adams and Park.....	+2	.....	+1.5	.....	+2	.....
“ “ 1 N. of Gibson.....	+2	.....	+1.5	.....	+1.5	.....
“ “ Neponset ave. <i>See</i> Neponset ave.	.....	.....	.....	.....	.....	.....
“ “ Dorchester ave. <i>See</i> Dorchester ave.	.....	.....	.....	.....	.....	.....
Dorchester ave. and Creek.....	.....	.....	+ .5	.....	+1	.....
“ “ “ Freeport.....	+2	.....	+1	.....	+1.5	.....
“ “ “ Lyon.....	.....	.....	+2	.....	+2	.....
“ “ “ Linden.....	.....	.....	+2	.....	+2.5	.....
Dorchester avenue and Leedsville (=Leeds).....	+1.5	.....	+2.5	.....	+2	.....
Dorchester ave. and Ellet.....	.....	.....	+1.5	.....	+2	.....
“ “ “ N. of Greenwich.....	.....	.....	+1.5	.....	+2	.....
“ “ “ S. “ “.....	.....	.....	+1	.....	+1.5	.....
“ “ “ Adams (Field's Corner).....	+1	.....	+2	.....	+1.5	.....
“ “ “ Charles.....	.....	.....	.....	.....	+1.5	.....
“ “ “ Faulkner and E. of Faulkner....	+1	.....	+1	.....	+1.5	.....
“ “ at Field's Cor. Transfer Station.....	.....	.....	.....	.....	+1	.....
“ “ and Park.....	.....	.....	+1	.....	.....	.....
Neponset ave. and Adams.....	+2	.....	+1.5	.....	+2	.....
“ “ “ Saco.....	+2	.....	+1.5	.....	+2	.....
“ “ “ 1 W. of Mill.....	+1.5	.....	+1.5	.....	+1.5	.....
“ “ “ Mill.....	+2	.....	+1.5	.....	+2	.....
“ “ “ 1 N. of King.....	+1.5	.....	+1.5	.....	+1.5	.....

DISTRICT XII. (FIELD'S CORNER AND NEPONSET.) — *Concluded.*

STREETS.	1898.	1899.	
		Spring.	Autumn.
Neponset ave. and Tileston pl.....	+2	+1	+2
“ “ “ S. of Pope's Hill st.....			+1.5
“ “ “ Boutwell ave.....	+2	+1	+2
“ “ “ N. W. of Freeport	+1.5	+2	+2
“ “ “ S. W. “ “			+1
“ “ “ Blackwell.....	+1.5	+1.5	+1.5
“ “ “ Chickatawbut.....	+2	+1.5	+1
“ “ “ 1 W. of Taylor ...	+2	+2	+1.5
“ “ “ Taylor.....	+2	+2	+2
Park and Dorchester ave. <i>See Dor-</i> <i>chester ave.</i>			
“ E. of Dorchester ave.....	+1	+1	+1
“ W. of Adams.....	+1.5	+1	+1
“ and Adams. <i>See Adams.</i>			
Walnut, E. of Neponset ave.....	+ .5	+ .5	+ .4
“ 1 W. of Rice.....	+2	+1.5	+1.5
Average.....	+1.66	+1.43	+1.56

DISTRICT XIII. (ASHMONT.)

Dorchester ave., S. of Gibson.....	+ .5	+ .5	+ .5
Dorchester ave. and Centre.....			+1
“ “ “ 1 N. of Lonsdale (= S. of Rosemont).....	+1	+0	-1.5
Dorchester ave. and Bailey.....	+1	- .5	-1
“ “ “ 2 S. of Codman..	+ .5	+0	-0
“ “ “ 1 S. of Richmond	+2		- .5
Average.....	+1.0	- .5	+1.17

DISTRICT XIV. (BLUE HILL AVE., GROVE HALL TO MATTAPAN.)

Blue Hill ave. and Seaver.....			-1.5	-2
“ “ “ “ Glenway.....		-3.5		-3
“ “ “ “ Esmond.....				-3
“ “ “ “ Canterbury ...		-1.5	- .5	
“ “ “ “ 1 N. of Harvard..		-3	-2	-4
“ “ “ “ 1 S. “ “				-5
“ “ “ gate between Harvard and Morton.....		-4	-3	

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DISTRICT XIV. (BLUE HILL AVE., GROVE HALL TO MATTAPAN.)—*Concluded.*

STREETS.	1898.	1899.	
		Spring.	Autumn.
Blue Hill ave. and Morton.....	—2	—2 *	—6
“ “ “ Evelyn.....			—4
“ “ “ 1 N. of Walk Hill.....	—5	—3.5	—2
Seaver W. of Blue Hill ave. <i>See Blue Hill ave.</i>			
Average.....	—3.17	—2.08	—3.63

DISTRICT XV. (CHARLESTOWN.)

Alford and Main.....	+ .5	+1.5	+2	
“ “ West.....	+2	+1.5	+2	
“ “ Arlington ave.....	+1.5	+2.5	+3	
Alford, between Arlington and the bridge.....	+3	+4	+2.5	
Alford, on bridge, S. of draw.....	+2	+3	+2	
“ opp. Poorhouse.....	+1	+ .5		—1
“ last in Boston.....	+ .5	— .5	— .5	—1
Average.....	+1.5	— .5	+2.17	+2.3

DISTRICT A. (LYNN & BOSTON ST. RY. ORIENT HEIGHTS.)

Bennington and Orient Heights Sta..					— .5
“ “ Blackinton.....					— .5
“ “ 1 N. of Blackinton..					— .5
“ Leyden.....					— .5
Walley, last in Boston.....				+0	—6
Average.....				+0	—1.6

DISTRICT B. (NEWTON & BOSTON ST. RY. PART OF BRIGHTON.)

N. Beacon, W. corner Cambridge....	+ .5	— .5	— .5		—1
“ “ Dustin.....	+0	— .5	+0	— .5	+1
“ “ Market.....	+ .5	—0	+ .5	— .5	+0
“ “ 1 N.W. of Market,	+ .5		+ .5	— .5	+0
“ “ 2 “ “					—1
“ Parsons.....	+ .5	—1.5	+0	—0	—1.5
Average.....	+ .30	— .50	+ .25	— .40	+ .33

DISTRICT C. (QUINCY & BOSTON ST. RY. PART OF QUINCY.)

STREETS.	1898.	1899.			
		Spring.		Autumn.	
Atlantic and Hancock.....	—4	—3	+ .5	—6	
“ “ Squantum.....	—2			—3	
Hancock and Newbury.....		—3		—6	
Squantum and Atlantic. <i>See Atlantic.</i>					
“ “ 1 N. of Atlantic.....	—3			—1.5	
“ “ 2 “ “.....	—3			—1.5	
“ “ end of car line.....			+ .5	—0	
Average.....	—3	—3	+ .5	—3	

DISTRICT D. (NORFOLK SUBURBAN ST. RY. PART OF DORCHESTER.)

Blue Hill and River. <i>See River.</i>					
Dorchester ave., Washington and Adams.....	+ .5	+ .5	— .5	+1.5	
River 1 W. of Washington.....	+ .5		—2	+1.5	
“ Central ave.....	+1		—1	+4	—0
“ 5 W. from Central ave.....	+1.5		—1.5	+4	
“ 10 “ “.....	+ .5		—1	+2	
“ 1 N. E. of Blue Hill ave.....	+1		—1	+2.5	
“ Blue Hill ave. and Oakland.....				+2.5	
“ 1 W. Blue Hill ave.....				+1.5	
“ Malta.....	+2		—1.5	+6	
“ last in Boston.....	+2		—1	+4	
Washington, Adams and Dorchester ave. <i>See Dorchester ave.</i>					
Washington, between Dorchester and River.....				+1	
Average.....	+1.19	+ .5	—1.19	+2.77	—0

DISTRICT E. (NORFOLK SUBURBAN ST. RY. PART OF WEST ROXBURY.)

Hyde Park ave. 2 N. of Walk Hill....	+4				
“ “ 1 “ “.....		+4	+2	—3	
“ “ 1 S. “ “.....	+1	—1	+2.5	+ .5	—1
“ “ Neponset ave.....		—2	+4	+ .5	—0
“ “ 1 S. of Ashland.....	+1	—1	+3	+1	
“ “ Richards ave.....			— .5	+1	
“ “ last in Boston.....	+1	+6	+1	—1	
Washington and Morton.....		+6	—2	+2	—6
Average.....	+1.75	—1.33	+4.21	+1.14	—2.2
D and E together average.....	+1.38	—1.33	+3.75	+2.14	—1.83

DISTRICT F. (WEST ROXBURY AND ROSLINDALE STREET RAILWAY.)

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Ashland and Sheldon.....					+2	-1
“ “ Rowe.....					+1.5	-1
“ “ Canterbury.....					+1.5	-1.5
“ last on pipe line.....					+2	-3
Beech 1 W. of Kenneth.....	+0	-4		-1	+0	
Belgrade ave. and Colberg ave.....		-3		-1.5		-2
Brandon ave. and South.....			+ .5	-3	+1	
“ “ 1 S. of South.....		-2				
Centre and 1 N. of Bellevue.....		-7		-1.5	+ .5	
“ “ Spring.....		-3		-2		- .5
“ “ 1 N. of Baker.....		-1	+ .5	- .5	+ .5	- .5
Grove W. from Washington.....	+ .5	- .5	+ .5	- .5	+ .5	- .5
“ and Washington. See Wash- ington.						
“ “ German.....	+2	-2	+0	-0	+1.5	-1.5
Oakland and Regent road.....					+1	-5
“ “ Hollingsworth.....					+1	
“ “ River. See River.						
South and Brandon ave. See Bran- don ave.						
Spring and Centre. See Centre.						
Washington 1 S. of Forest Hills sta..	+1	-3	+0	-0	+5	-4
Washington 1 S. of Bridge = 2d S. of Forest Hills sta.					+1	-1
Washington next South.....		-3	+0	-10		-5
“ “ “.....				- .5	+1	-5
“ “ “.....						-4
“ and South.....		-3	+1	-2	+1.5	-1.5
“ “ Albano.....				-1	+ .5	-2
“ next South.....		-1				
“ 1 N. of Beach.....			+ .5	-1.5	+1	-2
“ top of hill opp. car-house.....	+1		+ .5		+1.5	
“ 2 S. of LaGrange.....	+ .5		+ .5		+ .5	
“ and Grove.....	+1	- .5		- .5	+0	-1.5
“ “ Rockland.....		-1	+ .5	- .5	+1.5	
Average.....	+ .86	-2.36	+ .41	-1.70	+ .96	-1.76

DISTRICT G. (NEEDHAM & BOSTON ST. RY. PART OF W. ROXBURY.)

STREETS.	1898.		1899.			
			Spring.		Autumn.	
Spring, last in Boston.....						—6
“ and Centre						—5
Average						—3.25

Appendix B.

Summary of Voltmeter Readings between Hydrants and Tracks.

DISTRICTS.	1898.		1899.			
			Spring.		Autumn.	
Boston Elevated Railway Company.	+	—	+	—	+	—
I. East Boston.....	Mx. 1	2	1	.5	.5	2
	Av. .3	.4	.4	.4	.2	.3
II. Most of Charlestown	Mx. 2	8	1	4	1	1.5
	Av. .8	2.5	.5	1.2	.4	.5
III. City Proper.....	Mx. 1.5	2	1.5	1	1	2
	Av. .6	.9	.4	.6	.4	.8
IV. South Boston.....	Mx. ..	2	.5	3	.....	3
	Av. ..	.9	.3	.9	.....	1
V. Harrison ave. (S. End)	Mx. 2.5	.....	3.5	.....	2.5	.....
	Av. 1.9	.....	1.9	.....	1.7	.....
VI. Most of South End.....	Mx. 2	1	2	1	1	1
	Av. .9	.6	.9	.8	.6	.3
VII. Back Bay.....	Mx. ..	3	.....	3.5	.....	3.5
	Av. ..	1.6	.....	1.4	.....	1.4
VIII. Most of Brighton.....	Mx. 1.5	1	2	1	1	2.5
	Av. .6	.3	.7	.5	.5	.9
IX. Reservoir (part of Brighton)....	Mx. ..	6	.....	5	.....	5
	Av. ..	6	.....	3.3	.....	4.3
X. Roxbury and part of W. Roxbury	Mx. 2	8	.5	5	.....	6
	Av. .6	1.6	.2	1.1	.....	1.1
XI. Part of Dorchester	Mx. 1	2	1	2	2.5	2
	Av. .4	.9	.3	.7	.7	.8
XII. Field's Corner and Neponset ..	Mx. 2	.....	2.5	.....	2.5	.....
	Av. 1.7	.....	1.4	.....	1.6	.....
XIII. Ashmont.....	Mx. 2	.5	.5	1.5	1	1
	Av. 1	.5	.2	.8	.8	1
XIV. Blue Hill ave. (Dorchester)...	Mx. ..	5	3	6
	Av. ..	3.2	2.1	3.6
XV. Alford st. (Charlestown).....	Mx. 3	.5	4	.5	3	1
	Av. 1.5	.5	2.2	.5	2.3	1

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**Summary of Voltmeter Readings between Hydrants
and Tracks. — *Concluded.***

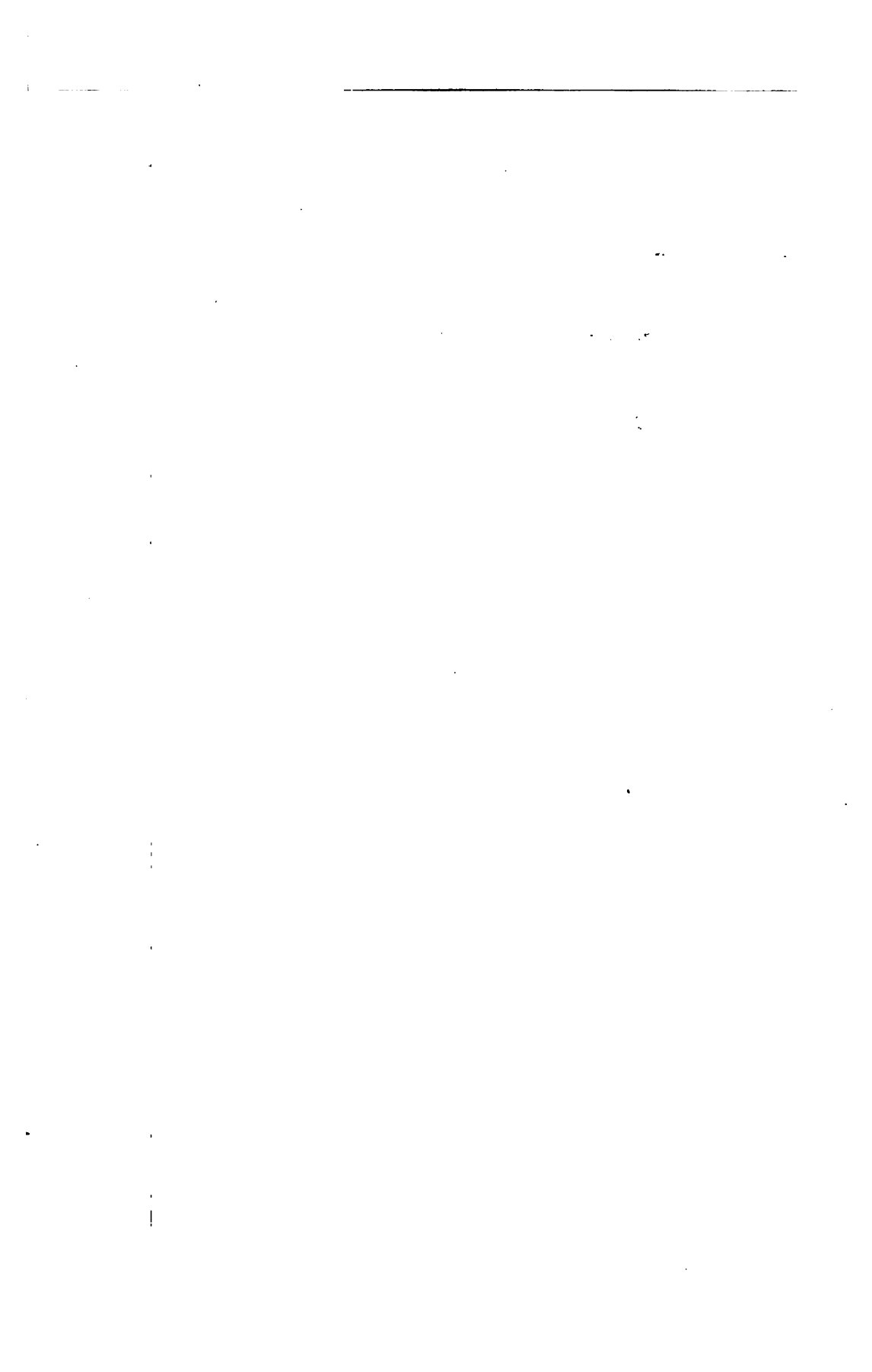
DISTRICTS.	1898.		1899.			
			Spring.		Autumn.	
	+	-	+	-	+	-
A. Breed's Island (L. & B.).....	Mx. ....	.....	.....	.....	.....	6
	Av. ....	.....	.....	.....	.....	1.6
B. N. Beacon (N. & B.).....	Mx. .5	1.5	.5	.5	1	1.5
	Av. .3	.5	.3	.4	.8	1
C. Squantum & Quincy (Q. & B.)....	Mx. 4	.....	3	.....	.5	6
	Av. 3	.....	3	.....	.5	3
D. River st. (N-S.).....	Mx. 2	.....	.5	2	6	.....
	Av. 1.2	.....	.5	1.2	2.8	.....
E. Hyde Park ave. (N. D.).....	Mx. 4	2	6	2	2	6
	Av. 1.8	1.3	4.2	1	1.1	2.2
F. W. Roxbury and Roslindale	Mx. 2	7	1	10	2	5
	Av. .9	2.4	.4	1.7	1	1.8
G. Spring st. (Needham & Boston)...	Mx. ....	.....	.....	.....	.....	6
	Av. ....	.....	.....	.....	.....	3.3

GENERAL SUMMARY.

RAILROADS.	1898.		1899.			
			Spring.		Autumn.	
	+	-	+	-	+	-
Boston Elevated Railway	Mx. 3	8	4	4	3	6
	Av. 1	1.2	.9	.9	.8	1
Other roads.....	Mx. 4	7	6	10	6	6
	Av. 1	2.1	1.5	1.4	1.3	1.8
All combined.....	Mx. 4	8	6	10	6	6
	Av. 1	1.3	1	1	1	1.1

*Appendix D.***Voltmeter Readings along Sections of Track.**

STREETS.	1898.		1899.	
	Approximate Distance.	Drop per 100'	Approximate Distance.	Drop per 100'
DISTRICT I. (EAST BOSTON.)				
Saratoga—Wordsworth to Bennington.....			2400'	.2
DISTRICT II. (CHARLESTOWN.)				
Alford—South from City line.....			2500'	.16
DISTRICT IV. (SOUTH BOSTON.)				
E. Broadway—G to H			700'	.09
E. Eighth—Old Harbor to G			900'	.04
DISTRICT VII. (BACK BAY.)				
Commonwealth ave.—St. Mary's to cross roads			2500'	.008
DISTRICT VIII. (BRIGHTON.)				
Tremont—Washington to Pembroke (Newton)			2500'	.02
“ near boundary to “ “	600'	.03		
DISTRICT IX. (BRIGHTON.)				
Commonwealth ave.—E. from Lake st.			2500'	.08
DISTRICT X. (ROXBURY.)				
Centre st.—Mozart to Forbes	800'	.06		
“ Lakeville pl. to Perkins st.			2300'	.04
Washington st.—Green to Keyes			1800'	.09
DISTRICT XI. (DORCHESTER.)				
Norfolk—Edson to Withington.....	1600'	.03		
“ Milton ave. to Nelson st			1800'	.02
Bowdoin st.—Geneva ave. to Hamilton.....	1600'	.02		
Dorchester ave.—Kemp to Locust.....	1400'	.06	1400'	.03
“ “ Howes to Thornley.....	1400'	.07		
DISTRICT XII. (FIELD'S COR. AND NEPONSET.)				
Dorchester ave.—Savin Hill ave. to Freeport.....			2100'	.06
Neponset ave.—King to Adams.....	1600'	.04	1600'	.03
DISTRICT XIII. (ASHMONT.)				
Dorchester ave.—Melville to King	1600'	.06		
“ Centre to King.....			800'	.03
“ 100 yds. N. of Richmond to Codman.....	1600'	.03	2200'	.27



Voltmeter Readings along Sections of Track. — *Concluded.*

STREETS.	1898.		1899.	
	Approximate Distance.	Drop per 100'	Approximate Distance.	Drop per 100'
DISTRICT XIV. (BLUE HILL AVENUE.)				
Blue Hill ave.—Glenway to Canterbury	1400'	.02	1400'	.04
“ Morton to 2,500' N.....			2500'	.02
“ Fessenden to Morton.....	1800'	.01		
“ Walk Hill to Morton			2400'	.008
“ Boston Elevated average.....		.04		.07
DISTRICT A. (EAST BOSTON.)				
Bennington st.—Orient Heights to Leyden.....			1500'	.13
DISTRICT B. (BRIGHTON.)				
North Beacon st.—B. & A. crossing to 200 yds. W. of Market	2000'	.003		
“ B. & A. crossing to Market.....			2400'	.06
“ R. R. side track crossing town of Watertown.....			2500'	.24
DISTRICT C. (QUINCY.)				
Squantum st.—N. E. from Atlantic to bridge over creek (about 2,000').....			2000'	.08
DISTRICT D. (DORCHESTER.)				
River st.—2,000' W. of Central ave. to 500' W.....	1550'	.05		
“ 2,000' W. of Central ave. to 500' W.....	1550'	.01		
“ 3,000' W. of Central ave. to 500' W.....			2500'	.06
DISTRICT E. (WEST ROXBURY.)				
Hyde Park ave.—Richards ave. to Metropolitan ave..			2000'	.05
“ Boundary to Metropolitan ave.....			2000'	.3
DISTRICT F. (WEST ROXBURY.)				
Ashland st.—Harvard to Calvary Cemetery.....			1800'	.03
Centre st.—Grove to 2,500' N.....			2500'	.10
Washington st.—S.W. from bridge at Forest Hills ...			2400'	.08
“ S.W. from bridge at Forest Hills ...			2500'	.08
“ N. from S. junction of South End ..			2500'	.06
“ Either side of La Grange.....			1440'	.003
“ Heron st. to 2,400' south.....			2400'	.2
DISTRICT G. (WEST ROXBURY.)				
Spring st.—Webster to 2,500' W.....			2500'	.06
A—G average.....		.02		.102
Grand average.....		.035		.085

*Appendix F.***Voltmeter Readings between Hydrants Across Boundaries of City.**

+ = Away from Boston. - = Towards Boston.

STREETS.	1898.	1899.
Brookline Boundary:		
Beacon st., across St. Mary's.....	— .5	.....
“ “ “ Brighton boundary.....	— .06	0
Essex st. and Commonwealth ave.....	— .3	.....
Harvard ave.	— .05	.....
Huntington ave., across Parkway	— .5	—1
Cambridge Boundary:		
Brookline st., across Brookline bridge.....	+1.5	+1
Cambridge st. and River st.....	+1	+1.5
North Harvard st. and Boylston st.....	+1.5	+ .6
Western ave., across bridge.....	— .3	— .2 to + .1
Chelsea—(not city boundary, but between Boston and Chelsea pipes in Chelsea):		
Pearl and Maynard sts.....	+ .2 to —2	— .2
Dedham Boundary:		
Grove st.....	+ .4 to —1	.....
Everett Boundary:		
Alford st. and Broadway	— .05 to + .01	0
Hyde Park Boundary:		
Hyde Park ave.....	+2.5	+11
River st.	+5 to —1	+10
Milton Boundary:		
Central ave. and River st.....	.....	—2 to —28
Brook road and River st.....	.....	+3 to —10
Elliot and Washington sts.....	.....	+2 to 10
Newton Boundary:		
Newton boulevard and Commonwealth ave.....	+ .01 to —2	+1
Tremont st.....	+ .1 to —1	+1.5 to — .2
Quincy Boundary:		
Across Neponset bridge.....	—2	—1.2
Somerville Boundary:		
Broadway and Caldwell st.	—1	— .8
Cambridge and Washington sts.	+ .01 to — .1	— .2
Watertown Boundary:		
North Beacon st. and Arsenal yard.....	+ .1 to — .3	—1.5 to + .1

*Appendix G.***Voltmeter Readings Between Hydrants and Rails on either side of Boundaries.**

STREETS.	1898.	1899.	
		Spring.	Autumn.
Brookline :			
Babcock st., Brookline.....		-1.5	
Commonwealth ave., Boston.....			-1.5
Beacon and St. Mary's st., Brookline.....		-3.5	-3
Last in (Back Bay) Boston.....		-3	-3.5
Beacon, opp. Strathmore road.....	-3		-4
Last in (Brighton) Boston.....			-4
Harvard, first in Brookline.....		-1	-2
Last in (Brighton) Boston.....		-1	-1
Huntington ave., first in Brookline.....		-1.5	-1
Last in (Roxbury) Boston.....		-1.5	-2.5
Cambridge:			
River st., first in Cambridge.....		+ .4 to -.2	- .8
Cambridge st., last in (Brighton) Boston...		+ .5 to -0	-1
Dedham :			
Grove st., first in Dedham.....	- .5	+ .2	- .2
Last in (West Roxbury) Boston.....	+ .2 to -.2	+0	+1.5 to -1.5
Everett:			
Broadway, first st. in Everett.....	-1	-1	-1
Alford, last in (Charlestown) Boston.....	+ .5 to -.5	- .5	-1
Hyde Park:			
River st., first in Hyde Park.....		-2	-4
Last in (Dorchester) Boston.....		+4	+4
Milton:			
Ellot st., south of Central ave.....			-12
River st. (Dorchester), Boston.....			+4 to -0
Newton:			
Newton boulevard, first in Newton.....			+3 to -4
Commonwealth ave., last in (Brighton) Boston.....			-3

**Voltmeter Readings between Hydrants and rails on either side
of Boundaries. — *Concluded.***

STREETS.	1898.	1899.	
		Spring.	Autumn.
Tremont, first in Newton.....			— .6
Last in (Brighton) Boston.....			—1
Quincy:			
Hancock, first in Quincy.....		—3	—6
Neponset ave., last in (Dorchester) Boston.....		+2	+2
Somerville:			
Broadway, first in Somerville.....	+2	+1.5	+1
Last in (Charlestown) Boston.....	+1	+1	+ .5
Washington, first in Somerville.....	+0 to —.5	— .5	— .5
Cambridge st., last in (Charlestown) Boston.	+ .5 to —.5	+ .5	— .5

*Appendix H.***(a.) Voltmeter Readings between Pipes of Metropolitan Water Works and those in Watertown, Boston and Milton.**

Metropolitan Water Works to Watertown system, Mount Auburn st., near Common st.	+ .2 to - .5
Metropolitan Water Works to Boston Water Works, Beacon st. and Chestnut Hill ave.	- .5
Metropolitan Water Works, north line, to Metropolitan Water Works, south line, Beacon st. and Chestnut Hill ave.	- .4
Metropolitan Water Works to Boston Water Works, Boylston st. and Fisher ave., Brookline.	+ .1
Metropolitan Water Works to Brookline Water Works, Boylston st., near Fisher ave., Brookline.	-.05 to -.2
Metropolitan Water Works to Boston Water Works, Perkins and Prince sts., West Roxbury.	- .5
Metropolitan Water Works to Boston Water Works, Morton and Washington sts.	+ .1 to - .3
Metropolitan Water Works to Boston Water Works, Morton st., east of Blue Hill ave.	- .1 to - .2
Metropolitan Water Works to Boston Water Works, River st., near Morton st., Dorchester.	- .1 to - .5
Metropolitan Water Works to Milton Water Works, Lower Mills.	+ .1 to - .3
Metropolitan Water Works to Milton Water Works, East Milton.	+2 to + .1
Metropolitan Water Works to Brookline Water Works, Coolidge Corner.	-1
Metropolitan Water Works to Boston Water Works, Brighton and Harvard aves., Allston.	- .4
Same on 15-volt scale (instead of 1.5-volt scale)	-1

(b.) Voltmeter Readings between Metropolitan Water Works, Pipes and Rails.

Mt. Auburn and Common sts. (Watertown B. El. Ry.)	-1 to -2
Irving and North Beacon sts. (Watertown, N. & B. St. Ry.)	+ .2 to -1.5
Tremont st. and Waverly ave. (Newton B. El. Ry.)	+1.5 to -2.5
Ward st. and Commonwealth ave. (Newton B. El. Ry.)	+5 to -3
Beacon st. and Chestnut Hill ave. (Brighton B. El. Ry.)	-3 to -5
(Boston Water Works and Boston Elevated Railway, Beacon st. and Chestnut Hill ave.)	-4 to -6
Washington and Morton sts. (Forest Hills B. El. Ry.)	-3 to -5
Blue Hill ave. and Morton st. (Dorchester B. El. Ry.)	-1 to -2
(Boston Water Works, Morton st., east from Blue Hill ave. and B. El. Ry.)	-1 to -3
River st., east of Morton st. (Dorchester N-S. St. Ry.)	+1 to +2
Milton Water Works, Adams and Elliot sts. and B., M. & Br. St. Ry.	+8 to -14
Adams st., at East Milton Crossing (B., M. & Br. St. Ry.)	+10 to -14
Adams st., at East Milton Crossing (Q. & B. St. Ry.)	+2 to -10
Coolidge Corner (Brookline B. El. Ry.)	-4
Brighton and Harvard aves. (Allston B. El. Ry.)	-2 to -4
(Same as 15, instead of 1.5-volt scale)	-1 to -1.5

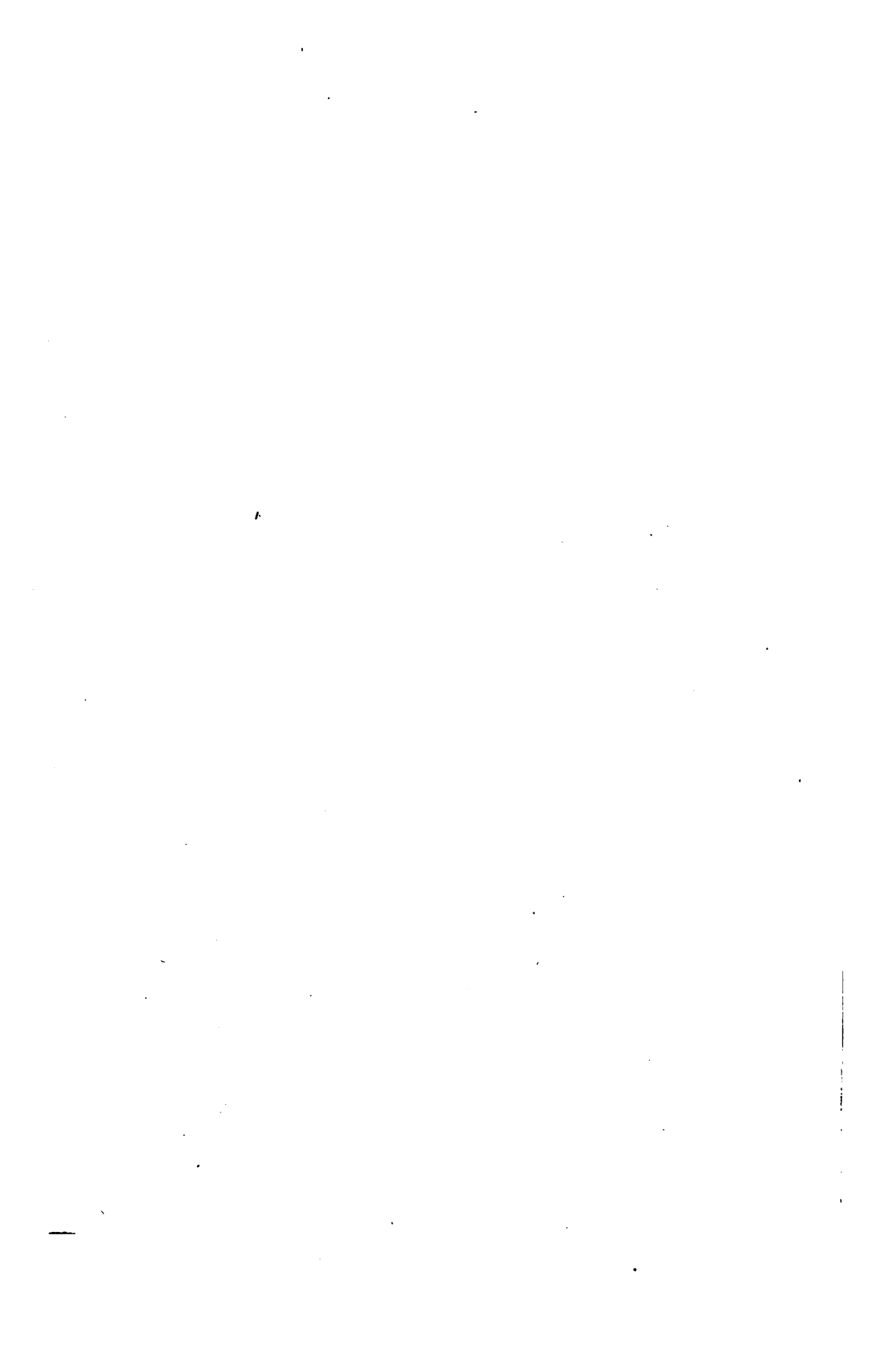
GENERAL STATISTICS.

BOSTON WATER DEPARTMENT.

Daily average amount used through meters, gallons	15,027,500
Number of services	86,091
Number of meters	4,618
Number of motors	115
Number of elevators	497
Length of supply and distributing mains, in miles	706.1
Number of public fire hydrants in use	7,185
Yearly revenue from annual water rates	\$1,475,815 57
Yearly revenue from metered water	\$937,861 40
Percentage of total revenue from metered water	38.8
Yearly expense of maintenance	\$586,698 39

Average Maximum and Minimum Monthly and Yearly Heights, in Feet, Above City Base, to which Water would Rise at Different Stations on the Boston Water Works.

1899.	Boston Common.		Engine-house No. 8, Salem Street.		Engine-house No. 7, East Street.		Engine-house No. 38, Congress Street, So. Boston.		Engine-house No. 2, Fourth and O Streets, So. Boston.		Engine-house No. 16, River Street, Dorchester.		Engine-house No. 34, Western Avenue, Brighton.		Engine-house No. 32, Bunker Hill Street, Charlestown.		710 Albany Street.		City Hall, High Service.		Engine-house No. 18, Harvard Street, Dorchester, High Service.		Engine-house No. 9, Paris Street, East Boston.		Engine-house No. 24, Quincy Street, Roxbury, High Service.		Engine-house No. 29, Chestnut Hill Ave., Brighton, High Service.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
January...	122.3	107.2	121.9	106.2	121.7	105.5	119.9	104.4	117.8	99.8	121.4	104.4	.....	.....	147.6	141.5	121.9	107.4	249.0	245.2	245.8	235.7	147.0	136.8	247.6	241.9	.....	.....
February..	119.8	104.8	118.5	101.7	118.0	103.0	116.5	101.2	112.7	94.4	118.1	101.5	.....	.....	145.3	136.7	118.2	104.7	249.4	245.6	245.1	235.6	141.3	129.2	247.7	242.2	.....	.....
March.....	126.9	109.7	125.9	107.5	126.5	108.4	124.2	107.9	123.0	103.2	124.6	106.2	.....	.....	152.1	139.3	123.7	110.3	249.7	245.0	247.8	240.0	150.9	134.7	248.4	242.9	.....	.....
April.....	128.2	110.3	127.3	108.4	127.0	108.7	125.5	106.9	125.4	101.9	127.6	106.5	.....	.....	154.8	144.4	127.7	110.5	250.0	245.5	249.4	242.7	153.6	136.3	248.4	242.2	.....	.....
May.....	128.7	109.5	128.3	107.2	128.3	109.5	126.2	106.9	125.5	101.6	127.4	105.1	.....	.....	154.2	142.5	128.1	109.7	250.0	245.4	248.4	241.0	154.3	132.7	248.6	241.8	.....	.....
June.....	126.8	107.9	128.0	106.1	128.0	107.2	125.5	103.9	125.3	101.0	127.8	103.5	.....	.....	154.9	140.1	127.5	107.7	249.6	242.7	249.0	241.4	153.6	132.1	246.9	238.5	.....	.....
July.....	129.1	108.2	128.8	106.6	128.5	107.4	125.5	104.0	125.5	101.7	127.7	102.6	132.9	120.3	155.7	143.0	127.7	108.3	249.6	242.1	249.6	241.6	154.3	135.3	246.3	238.4	250.0	244.8
August....	128.7	110.1	128.2	108.9	128.3	109.4	125.5	106.8	125.2	103.7	127.5	104.8	132.8	122.7	155.9	144.7	128.1	110.3	249.2	248.7	249.3	241.7	155.2	137.7	246.8	240.1	250.2	247.0
September.	128.2	110.9	127.9	110.0	127.9	110.9	125.4	108.4	124.6	105.7	126.5	106.7	131.9	123.2	155.4	145.7	127.8	111.2	249.7	248.0	242.4	242.4	155.2	139.8	247.7	241.3	250.1	246.0
October....	126.6	112.3	128.3	111.7	127.9	112.4	126.2	110.0	126.0	107.4	.....	.....	132.0	123.5	155.4	147.5	128.1	113.1	249.3	242.2	249.1	242.8	154.5	139.8	248.2	245.6	250.0	246.5
November.	128.1	111.7	128.1	112.4	127.9	112.7	126.1	110.1	125.5	107.4	.....	.....	131.7	122.5	155.0	146.3	127.9	112.7	249.0	241.8	249.0	243.9	155.8	141.1	248.0	242.5	250.2	246.3
December.	126.3	113.2	127.7	111.9	127.6	112.7	125.9	110.8	125.4	108.3	.....	.....	131.7	123.5	153.7	147.0	128.1	113.5	249.5	245.2	249.0	243.0	149.6	139.3	247.6	242.4	250.0	247.1
Averages..	127.0	109.6	126.6	108.1	126.4	109.0	124.4	105.3	123.5	103.0	125.4	104.6	132.2	122.6	153.3	143.2	126.4	109.9	249.5	242.9	248.4	241.0	152.1	136.2	247.7	241.4	250.0	246.3





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*Rainfall in Inches and Hundredths at Albany-street Pipe Yard, Boston,
for the Year 1899.*

1899.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....	0.29	0.10									1.15	
2.....					0.46							
3.....												
4.....		0.74										
5.....		0.15	1.02					0.03				
6.....							0.02			0.71		
7.....	1.12		0.46			0.40						
8.....		0.80		0.72	0.12							
9.....							1.12			0.49		
10.....												
11.....					0.09			1.11				
12.....			0.03	0.09							1.70	0.13
13.....												
14.....	0.27	2.00			0.18							
15.....						0.45						0.95
16.....			0.75				0.10					
17.....	0.96	0.27		0.56								
18.....										0.60		
19.....		0.22	1.70		0.09						0.11	0.34
20.....						0.40			2.80	0.12		
21.....					0.14				0.21			
22.....								0.02				
23.....			1.58							0.04		
24.....												
25.....	1.60			0.04		0.16						
26.....			0.21				2.40		2.21			
27.....		0.13				0.05	0.24					
28.....												
29.....			0.33			0.97			1.22	0.20		
30.....							0.04					
31.....			0.12									
Totals.	4.24	4.41	6.20	1.41	1.08	2.43	3.92	1.16	6.44	2.16	2.96	1.42

Total rainfall during the year 37.83 inches.

Rainfall in Inches and Hundredths at Gibson-street Pipe Yard, Dorchester, for the Year 1899.

1899.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....	0.65	0.10	.....	.....	.....	.....	.....	.....	.....	.....	1.10	.....
2.....	.....	.....	.....	.....	0.52	0.11	.....	.....	0.45	.....	.....	.....
3.....	.....	.....	0.50	.....	.....	.....	.....	.....	0.10	.....	.....	.....
4.....	.....	0.75	.....	.....	.....	.....	.....	.....	.....	.....	0.94	.....
5.....	.....	0.06	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....
6.....	.....	.....	.....	.....	.....	.....	0.02	.....	.....	0.97	.....	.....
7.....	1.25	.....	0.57	.....	.....	0.75	.....	.....	.....	.....	.....	.....
8.....	.....	0.62	.....	0.80	.....	.....	0.60	.....	0.02	.....	.....	.....
9.....	.....	.....	.....	.....	0.05	.....	0.70	.....	.....	0.70	.....	.....
10.....	.....	.....	.....	.....	.....	.....	0.04	1.07	.....	.....	.....	.....
11.....	.....	.....	.....	.....	0.15	.....	.....	.....	.....	.....	.....	.....
12.....	.....	.....	0.03	0.09	.....	.....	.....	0.01	0.47	.....	0.99	0.03
13.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
14.....	0.42	1.14	.....	0.06	0.14	0.03	.....	.....	.....	.....	.....	.....
15.....	.....	.....	0.05	.....	.....	0.43	.....	.....	.....	.....	0.04	0.96
16.....	.....	.....	0.87	.....	.....	.....	0.12	.....	.....	.....	.....	.....
17.....	0.97	0.32	.....	0.46	0.09	.....	.....	.....	.....	.....	.....	.....
18.....	.....	0.03	.....	.....	.....	.....	.....	.....	.....	0.48	.....	0.05
19.....	.....	0.40	1.64	.....	0.10	.....	.....	.....	.....	.....	0.07	0.20
20.....	.....	.....	.....	.....	.....	0.35	.....	.....	3.13	0.14	.....	.....
21.....	.....	.....	.....	.....	.....	.....	.....	0.29	.....	.....	.....	.....
22.....	.....	.....	.....	.....	0.17	.....	.....	0.25	.....	.....	0.06	.....
23.....	.....	.....	1.84	.....	.....	.....	.....	.....	.....	0.02	.....	.....
24.....	.....	.....	.....	.....	.....	0.07	.....	.....	.....	.....	.....	0.18
25.....	2.17	.....	.....	.....	.....	0.13	.....	0.07	.....	.....	.....	.....
26.....	.....	.....	0.21	.....	.....	.....	2.43	.....	0.24	.....	.....	.....
27.....	0.31	.....	.....	.....	.....	0.02	.....	.....	.....	.....	.....	.....
28.....	.....	.....	.....	.....	0.02	.....	.....	.....	.....	.....	.....	.....
29.....	.....	.....	0.29	.....	0.03	0.97	.....	.....	1.65	0.30	.....	.....
30.....	.....	.....	.....	.....	.....	.....	0.09	.....	.....	.....	.....	.....
31.....	.....	.....	0.12	.....	.....	.....	.....	.....	.....	.....	.....	.....
Totals.	5.46	3.73	7.02	1.41	1.27	2.84	4.02	1.40	6.35	2.61	3.20	1.42

Total rainfall during the year 40.73 inches.

Monthly Rainfall in Inches During 1899 in Various Places in Eastern Massachusetts.

PLACE.	Jan.	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Framingham	4.19	4.79	7.06	1.73	1.38	2.48	3.16	1.59	3.78	2.61	2.12	1.71	36.59
Dam 4, Ashland	4.29	4.99	7.15	1.82	1.72	2.34	3.17	1.49	4.13	2.84	1.96	1.69	37.59
Cordaville	4.18	5.04	7.27	2.10	1.29	2.81	3.60	1.39	4.12	2.79	2.54	2.03	39.16
Lake Cochituate	4.36	4.44	7.31	1.70	1.06	2.79	3.20	2.17	4.65	3.05	2.31	1.92	38.96
Chestnut Hill Reservoir	4.51	5.01	7.05	1.47	0.91	2.73	3.70	3.81	5.38	3.05	2.59	1.75	41.96
Spot Pond	4.10	5.27	7.17	1.40	1.03	2.90	2.67	3.22	4.81	2.76	2.49	1.42	39.24
Gibson street, Dorchester	5.46	3.73	7.02	1.41	1.27	2.84	4.02	1.40	6.35	2.61	3.20	1.42	40.73
Cambridge Observatory	4.96	5.41	6.67	1.37	1.46	2.90	2.49	2.59	4.31	1.55	3.56	1.51	38.78
Waltham, Boston Manufacturing Company	4.57	4.20	7.28	1.58	1.05	3.48	2.76	2.69	4.72	2.77	2.35	2.09	39.54
Lowell, Locks and Canals Company	4.87	5.02	7.95	1.50	2.10	2.71	4.12	2.11	3.66	1.99	2.71	1.68	39.92
Average of above ten places	4.50	4.79	7.19	1.61	1.33	2.80	3.29	2.25	4.59	2.60	2.58	1.72	39.25

**SCHEDULE OF STOCK AND PROPERTY ON
HAND IN THE DISTRIBUTION DIVISION OF
THE BOSTON WATER DEPARTMENT, JAN-
UARY 31, 1900.**

STOCK.

MAIN PIPE AND SPECIALS.

No.	Size.	Lbs.	Lbs.	Per Lb.	Value.
44	3-inch B Pipe	....	7,964	\$0.02	\$159 28
108	4 " B "	....		
1389	6 " B "	....	28,296		
684	8 " B "	....	590,319		
131	10 " B "	....	414,504		
390	12 " A "	....	109,873		
767	12 " B "	....	375,180		
194	16 " A "	....	817,622		
371	16 " B "	....	287,120		
84	20 " A "	....	606,214		
146	20 " B "	....	170,352		
35	24 " A "	....	334,340		
141	24 " B "	....	92,365		
18	30 " A "	....	427,653		
267	30 " B "	....	69,300		
6	36 " A "	....	1,173,465		
5	40 " B "	....	30,486		
25	42 " A "	....	36,245		
17	48 " A "	....	163,150		
2	60 " B "	....	138,329		
			24,000		
			5,888,313	\$0.013	\$76,548 07

MAIN PIPE IN PIECES.

18 ft.	3-inch B Pipe	.....	255	\$0.02	\$5 10
40 "	4 " B "	.....		
61 "	6 " B "	.....	872		
76 "	8 " B "	.....	2,135		
47 "	10 " B "	.....	3,700		
33 "	12 " A "	.....	3,160		
53 "	12 " B "	.....	2,614		
2 "	16 " A "	.....	4,611		
6 "	16 " B "	.....	236		
10 "	20 " A "	.....	798		
24 "	20 " B "	.....	1,610		
28 "	24 " A "	.....	4,560		
20 "	30 " A "	.....	5,894		
			7,000		
			37,190	\$0.013	\$483 47

FLEXIBLE JOINT PIPES.

No.	Size.	Lbs.	Per Ton.	Value.
17	6-inch	9,741	at \$29 40 long,	\$127 85
4	8 "	3,084	" 31 40 "	43 24
45	12 "	81,915	" 29 60 short,	1,212 34
54	24 "	243,553	" 27 60 "	3,361 03
<i>Carried forward</i>				\$81,940 38

WATER DEPARTMENT.

157

1-4 CURVES.				
No.	Size.	Lbs.	Lbs.	Per Lb.
<i>Brought forward</i>				\$81,940 38
12	3-inch	740		
29	4 "	2,500		
11	6 " short	1,390		
2	6 " long	350		
18	8 " short	3,670		
16	8 " long	4,400		
26	10 " short	7,509		
17	10 " long	5,035		
17	12 " short	5,855		
7	12 " long	2,429		
14	16 "	10,312		
			44,190	\$0.0255
7	20 "	6,650		
2	24 "	3,285		
1	30 "	2,640		
			12,575	\$0.022
				1,126 85
				276 65

1-8 CURVES.				
20	3-inch	1,078		
34	4 "	2,087		
39	6 "	4,453		
31	8 " short	4,673		
22	8 " long	5,240		
48	10 " short	9,883		
7	10 " long	2,100		
49	12 " short	12,601		
5	12 " long	2,250		
23	16 "	15,117		
15	20 "	13,167		
15	24 "	19,995		
			92,654	\$0.0255
17	30 "	29,240		
18	36 "	50,390		
1	40 "	3,378		
4	42 "	13,956		
2	48 "	8,680		
			105,644	\$0.022
				2,362 68
				2,324 17

1-16 CURVES.				
49	3-inch	1,810		
41	4 "	2,351		
36	6 "	3,472		
34	8 "	4,520		
45	10 "	7,236		
62	12 "	13,560		
14	16 "	9,755		
7	20 "	6,592		
17	24 "	21,277		
			70,573	\$0.0255
16	30 "	28,384		
2	36 "	5,610		
2	40 "	6,740		
3	42 "	10,554		
3	48 "	12,974		
			64,262	\$0.022
				1,413 76
<i>Carried forward</i>				\$91,244 10

1-32 CURVES.

No.	Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>					\$91,244 10
2	36-inch	5,530			
1	40 "	3,198			
1	42 "	3,259			
1	48 "	4,600			
			16,587	\$0.022	364 91

1-64 CURVES.

1	40-inch	2,756			
2	48 "	7,957			
			10,713	\$0.022	235 69

SLEEVES.

50	3-inch	2,000			
114	4 "	5,130			
328	6 "	23,155			
75	8 "	8,025			
89	10 "	11,833			
167	12 "	34,569			
29	16 "	9,379			
15	20 "	5,565			
			99,656	\$0.0255	2,541 23
5	24 "	2,114			
15	30 "	10,170			
6	36 "	5,358			
6	40 "	5,960			
4	42 "	3,760			
8	48 "	18,400			
1	60 "	1,700			
10	24 "	4,561			
			52,023	\$0.022	1,144 51

CAPS.

26	3-inch	462			
39	4 "	1,028			
142	6 "	5,257			
45	8 "	3,330			
12	10 "	1,224			
113	12 "	15,259			
15	16 "	3,495			
			30,055	\$0.0255	766 40
5	20 "	1,970			
5	24 "	2,870			
3	30 "	2,061			
3	36 "	3,018			
1	40 "	1,000			
2	48 "	4,120			
1	60 "	2,500			
			17,539	\$0.022	385 86

BRANCHES.

866	3-way, various sizes	{	274,045	\$0.0255	6,988 15
			162,227	.022	3,568 99
224	4-way, " "	{	106,965	.0255	2,727 61
			75,630	.022	1,663 86

Carried forward..... \$111,631 31

WATER DEPARTMENT.

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No.	Size.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$111,631 31
52	3-way hyd., various sizes.....	23,476	\$0.0255	598 64
90	3-way B. O., " ".....	20,520	.0255	523 26
14	Y-branches, " ".....	48,805	.022	1,073 71
8	" 30 x 20, lugged...	45,022	.022	990 48
		20,169	.0315	635 32

REDUCERS.

326	reducers, various sizes.....	40,622	\$0.0255	1,035 86
		59,058	.022	1,299 28

OFFSETS.

334	offsets, various sizes.....	65,448	\$0.0255	1,668 92
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SIPHON PIPES.

67	siphon pipes, various sizes...	29,090	\$0.022	639 98
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BRANCH OPENINGS.

22	branch openings, various sizes	5,044	\$0.022	110 97
1	" " cover.....	191	.022	4 20

MAIN PIPE PLUGS.

157	main pipe plugs, various sizes,	3,215	\$0.022	70 73
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CLEANING SLEEVES.

27	cleaning sleeves, various sizes,	2,936	\$0.022	64 59
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CLAMP SLEEVES.

127	clamp sleeves, various sizes..	6,026	\$0.0255	153 66
5	30-inch clamp sleeves.....	4,697	.022	103 33

BRANCH SLEEVES.

7	branch sleeves, various sizes..	3,350	\$0.0255	85 43
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CLEANING SLEEVE BOLTS.

10	12-inch.....		\$0.14	1 40
185	6 ".....		.07	12 95

BOLTS FOR STRAPPING.

31	1 x 5.....		\$0.07	2 17
62	1 x 6.....		.0486	3 01
2	1 3-8 x 8	} 125 bolts.....	.312	39 00
25	1 3-8 x 10			
21	1 3-8 x 12			
8	1 1-4 x 7			
16	1 1-4 x 8			
16	1 1-4 x 9			
27	1 1-4 x 10			
10	1 1-4 x 12			

Carried forward..... \$120,748 20

BOLT ENDS FOR STRAPPING.

No.	Size.	Per Lb.	Value.
<i>Brought forward</i>			\$120,748 20
5	1-inch	\$0.18	0 90
23	1 1-8 inch .....	.31	7 13
13	1 1-4 " .....	.55	7 15
16	1 3-8 " .....	.55	8 80

LEAD WASHERS.

6 lbs. 11-16 inch	} 1,613 lbs.....		
25 " 13-16 "			
745 " 5-8 "			
357 " 3-4 "			
195 " 7-8 "			
55 " 1 "			
230 " 1 1-8 "			
52573 " pig lead.....		.04875	2,562 94
1684 " gasket.....		.045	75 78
2 24-inch siphon curves, 4,399 lbs.....		.022	96 78
3493 lbs. wrought iron straps.....		.08	279 44

GATES.

GATES COMPLETE.

7 36-inch	\$438.50	3,069 50
5 30 "	812.50	1,562 50
11 24 "	178.00	1,958 00
7 20 "	142.00	994 00
13 16 "	82.00	1,066 00
10 12 "	56.40	564 00
6 10 "	45.75	274 50
20 8 "	29.20	584 00
43 6 "	23.10	993 30
11 4 "	14.10	155 10
19 3 "	9.80	186 20

COMPOSITION PARTS OF GATES (FINISHED).

3-INCH GATES.

17 screws, No. 1 metal.....	\$1.35	22 95
11 valves, No. 2 metal.....	.97	10 67
211 small collars, No. 2 metal.....	.09	18 99

4-INCH GATES.

47 glands, No. 2 metal.....	\$0.61	28 67
12 screws, No. 1 metal.....	1.56	18 72
15 valves, No. 2 metal.....	1.38	20 70
20 body rings, No. 3 metal.....	.16	3 20
488 small collars, No. 2 metal.....	.09	43 92
71 bolts and nuts, Nos. 1 and 2 metal.....	.11	7 81

6-INCH GATES.

31 valves, No. 2 metal.....	\$8.77	116 87
15 stuffing-boxes, No. 2 metal.....	1.33	19 95
74 small collars, No. 2 metal.....	.10	7 40
70 body rings, No. 3 metal.....	.42	29 40
28 screws, No. 1 metal.....	2.34	65 52
43 glands, No. 2 metal.....	.82	35 26
46 bolts and nuts, Nos. 1 and 2.....	.14	6 44

Carried forward..... \$135,755 54

WATER DEPARTMENT.

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8-INCH GATES.

Size.	Per Lb.	Value.
<i>Brought forward</i>		\$135,755 54
26 body rings, No. 3 metal.....	\$0.61	15 86
14 stuffing-boxes, No. 2 metal.....	1.33	18 62
7 valves, No. 2 metal.....	5.03	35 21
10 screws, No. 1 metal.....	2.85	28 50

10-INCH GATES.

8 screws, No. 1 metal.....	\$4.43	35 44
35 body rings, No. 3 metal.....	.92	32 20
48 valve rings, No. 3 metal.....	.90	43 20
3 valve nuts, No. 2 metal.....	.89	2 67
21 bolts and nuts, Nos. 1 and 2 metal.....	.29	6 09

12-INCH GATES.

60 gate screws, No. 1 metal.....	\$5.42	325 20
45 glands, No. 2 metal.....	1.65	74 25
32 bolts and nuts, Nos. 1 and 2 metal.....	.29	9 28
53 small collars, No. 3 metal.....	.14	7 42
193 stuffing-box bolt nuts, No. 2 metal.....	.09	17 37
101 " " " " 1 ".....	.20	20 20

16-INCH GATES.

5 valve rings, No. 3 metal.....	\$1.74	8 70
203 small collars, No. 2 metal.....	.26	52 78
3 valve nuts, No. 2 metal.....	1.10	3 30
19 bolts, No. 1 metal.....	.34	6 46
5 24-inch gate screws.....	23.90	119 50
15 large gate nuts.....	.16	2 40
2023 9-32 screws, for gates.....	.015	30 35

CAST-IRON PARTS OF GATES (FINISHED).

4-INCH GATES.

20 stuffing-boxes.....	\$0.48	9 60
10 tops.....	.90	9 00

6-INCH GATES.

42 sides with rings.....	\$3.38	141 96
43 tops.....	1.56	67 08

8-INCH GATES.

40 sides with rings.....	\$5.00	200 00
38 tops.....	2.40	91 20

10-INCH GATES.

26 tops.....	\$2.96	76 96
51 stuffing-boxes.....	.84	42 84

12-INCH GATES.

6 sides with rings.....	\$7.90	47 40
24 tops.....	8.95	94 80
2 stuffing-boxes.....	.85	1 70
44 valves.....	4.80	211 20

Carried forward.....\$137,644 28

16-INCH GATES.

Size.	Per Lb.	Value.
<i>Brought forward</i>		\$137,644 28
9 stuffing-boxes.....	\$0.85	7 65

UNFINISHED COMPOSITION.

2,285 pounds, No. 1.....	\$0.2025	462 71
1,557 " " 2.....	.1975	307 51
1,227.5 " " 3.....	.15	184 13

UNFINISHED CAST-IRON.

113,356 pounds.....	\$0.0255	2,890 58
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GATES TO BE REPAIRED.

1 12-inch.....		39 48
1 16 ".....		57 40
1 20 ".....		99 40
1 24 ".....		124 60

BOLTS FOR GATES.

622 2 x 9-16.....	\$0.0242	15 05
1041 2 1-4 x 9-16.....	.0242	25 19
1332 3 x 5-8.....	.0214	28 50
844 3 1-2 x 5-8.....	.03	25 32
29 3 x 3-4.....	.0375	1 09
494 3 x 3-4, large head.....	.0566	27 96
255 3 3-4 x 3-4, large head.....	.045	11 48
2379 4 x 3-4.....	.063	149 88
146 4 1-2 x 3-4.....	.0663	9 68
46 4 x 1.....	.03	1 38

IRON WASHERS FOR GATES.

374 pounds, 11-16 x 1 1-2.....	\$0.04	14 96
299 " 13-16 x 1 3-4.....	.04	11 96
726 malleable iron gate nuts.....	.08	58 08
78 pounds of 9-32-inch brass rod.....	.18	14 04

GATE EXTENSIONS.

1 7-foot 6-inch.....		3 74
1 4 " 6 ".....		3 10
1 4 ".....		2 94
1 2 ".....		2 76
1 1 " 6-inch.....		2 30

HYDRANTS.

BARRELS COMPLETE.

5 2-foot 6-inch, Lowry barrels.....	\$23.65	118 25
11 3 " " ".....	24.93	274 23
1 3 " 3-inch " ".....	—	25 34
16 3 " 6 " " ".....	25.69	411 04
15 3 " 9 " " ".....	26.50	397 50
130 4 " " " ".....	27.25	3,542 50

Carried forward..... \$146,996 01

WATER DEPARTMENT.

163

No.	Size.	Per Lb.	Value.
<i>Brought forward</i>			\$146,996 01
22	4-foot 3-inch Lowry barrels.....	\$27.51	605 22
7	4 " 6 " " ".....	27.82	194 74
2	4 " 9 " " ".....	28.58	57 16
1	5 " " " ".....	—	28 99
2	5 " 3-inch " ".....	29.29	58 58
2	5 " 6 " " ".....	29.75	59 50
1	5 " 9 " " ".....	—	30 04
39	Post barrels.....	26.80	1,045 20
44	Boston Lowry barrels.....	16.10	708 40
2	Bachelder Post barrels.....	61.30	122 60
1	City of Quincy pattern Post barrel.....	—	31 00
31	Boston hydrants.....	15.00	465 00

BARRELS TO BE REPAIRED.

30	Lowry.....	\$19.07	572 10
6	Boston Lowry.....	11.27	67 62

POTS.

405	Lowry.....	253,054 pounds	
87	Boston Lowry.....	10,875 "	
139	post.....	21,406 "	
20	Boston.....	2,620 "	
Total.....		287,955 "	\$0.0255 7,342 85

HYDRANT EXTENSIONS.

	Lbs.	Lbs.	Per Lb.	Value.
67 Lowry Bottom Ex-				
tensions.....	11,088			
42 Boston Lowry Bot-				
tom Extensions...	1,825			
102 Post Bottom Exten-				
sions.....	6,484			
11 Boston Bottom Ex-				
tensions.....	1,375			
		20,772	\$0.0255	529.69

CAPS.

5	Lowry Pot Caps.....	375	\$0.0255	9 56
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WASTES.

57	large (L., B. L. & P.).....	\$0.44	25 08
61	small (Boston).....	.40	24 40

COMPOSITION PARTS (FINISHED).

LOWRY.

56	valve seats, No. 3 metal.....	\$0.60	33 60
39	7-inch screws, No. 1 metal.....	2.00	78 00
8	9-inch screws, No. 1 metal.....	1.93	15 44
41	Burnett valve check nuts, No. 2 metal....	.38	15 58
38	stuffing-box bolts and nuts.....	.26	9 88
6	24-inch Lowry Extension, No. 1 metal....	2.64	15 84
5	26-inch Lowry Extension, No. 1 metal....	2.84	14 20

Carried forward \$159,156 28

	Size.	Per Lb.	Value.
<i>Brought forward</i>			
26	small Burnett valve rings, No. 3 metal...	\$0.12	3 12
56	9-inch screw nuts, No. 2 metal.....	1.28	71 68

BOSTON LOWRY.

53	screws, No. 1 metal.....	\$1.50	79 50
137	stuffing-box bolts and nuts, Nos. 1 and 2 metal .....	.22	30 14
17	nuts, No. 2 metal.....	.91	15 47
61	valve seats, No. 2 metal.....	.44	26 84

POSTS.

618	3-8 inch screws, No. 1 metal.....	\$0.05	30 90
103	stuffing-boxes, No. 2 metal.....	.74	76 22
97	2 1-2 inch nipples, No. 2 metal.....	.54	52 38
11	4 1-2 inch nipples, No. 2 metal.....	1.81	19 91
20	main screws, No. 1 metal.....	1.40	28 00
170	valve seats, No. 2 metal.....	.51	86 70
20	screw nuts, No. 2 metal.....	1.15	23 00

BACHELDER POST.

14	valve seats, No. 2 metal.....	\$1.17	16 38
15	2 1-2 inch nipples, No. 2 metal.....	1.00	15 00
23	4 1-2 " " No. 2 metal.....	2.31	53 13
12	2 1-2 " screws, No. 1 metal.....	.59	7 08
14	4 1-2 " " No. 1 metal.....	.77	10 78
4	2 1-2 " spindles, No. 1 metal.....	.59	2 36
16	4 1-2 " " No. 1 metal.....	.88	14 08
53	stuffing-boxes, No. 2 metal.....	.31	16 43
160	small collars, No. 2 metal.....	.11	17 60
5	2 1-2 inch valves, No. 2 metal.....	.33	1 65
8	4 1-2 " " No. 2 metal.....	.48	3 84
6	4 1-2 " washers, No. 2 metal.....	.25	1 50
8	2 1-2 " " No. 2 metal.....	.17	1 36
62	glands, No. 2 metal.....	.23	14 26
9	4 1-2 inch valve bodies, No. 2 metal.....	2.05	18 45
6	2 1-2 " " No. 2 metal.....	1.48	8 88
3	screws, No. 1 metal.....	1.40	4 20
11	4 1-2 inch valves complete, Nos. 1 and 2 metal	7.34	80 74

CAST IRON PARTS FINISHED.

LOWRY.

40	valves.....	\$0.92	36 80
16	cross-bars.....	.42	6 72
76	cross-bar caps .....	.28	21 28
116	washers ..	.20	23 20
15	Burnett valves.....	1.47	22 05
22	set screws.....	.12	2 64
15	rods.....	.34	5 10

BOSTON LOWRY.

82	valves.....	\$0.17	13 94
118	washers .....	.10	11 80
38	cross-bars.....	.33	12 54
44	cross-bar caps.....	.25	11 00

Carried forward..... \$160,154 93

WATER DEPARTMENT.

165

	Size.	Post.	Per Lb.	Value.
<i>Brought forward</i>				\$160,154 93
11 valves.....			\$0.25	2 75
45 washers .....			.16	7 20
18 large tops.....			1.23	22 14
22 small tops .....			.39	8 58
46 4 1-2 inch caps.....			.53	24 38
56 2 1-2 inch caps.....			.18	10 08
71 guides.....			.26	18 46
82 keys.....			.03	2 46
1 nut.....			—	0 04

BACHELDER POSTS.

3 tops complete	\$28.05	84 15
1 top iron	—	7 36
5 bottoms.....	8.02	40 10
8 guides.....	.26	2 08

UNFINISHED CAST IRON PARTS.

77,842 pounds.....	\$0.0255	1,984 97
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UNFINISHED COMPOSITION PARTS.

1,002 pounds No. 1 metal	\$0.2025	202 91
2,635 pounds No. 2 metal1975	520 41
398 pounds No. 3 metal .....	.15	59 70

RUBBER VALVES.

	Size.	Lbs.	Lbs.	Per Lb.	Value.
72 Boston Lowry		50			
109 Posts		109			
9 Boston.....		3			
129 Lowry, 7-inch.....		305			
63 Lowry, 9-inch.....		164			
49 Burnett, small.....		12			
28 Bachelder Post.....		33			
112 Bachelder, 4 1-2 inch		19			
60 Bachelder, 2 1-2 inch		8			
			703	\$0.825	579 98

GASKETS.

71 Lowry.....	\$0.44	31 24
237 Posts.....	.36	85 32
124 Boston Lowry .....	.25	31 00
55 Boston.....	.22	12 10

BOLTS.

331 malleable iron bolts, "Lowry"	\$0.17	56 27
252 " " " " "B. L." .....	.17	42 84
86 " " " " "Boston" .....	.17	14 62
530 " " " " "Post" .....	.17	90 10
154 " " " " "extension bolts, "Lowry" .....	.23	35 42
136 " " " " "Post" .....	.23	31 28
59 bolts, 1-2 x 2 1-2.....	.0198	1 17
166 " 5-8 x 1 1-2.....	.02	3 32

Carried forward..... \$164,167 36

No.	Size.	Per Lb.	Value.
<i>Brought forward</i>			\$164,167 36
498	bolts, 5-8 x 2 1-2.....	\$0.0287	14 29
1300	" 5-8 x 3 1-2, T head.....	.03	39 00
260	" 3-4 x 1 1-2.....	.0229	5 95
142	" 3-4 x 1 3-4.....	.0229	3 25
451	" 3-4 x 2 3-4.....	.0298	13 44

WASHERS.

326	pounds, 15-16 x 2.....	\$0.04	13 04
111	pounds cast iron.....	.0255	2 83
181	pounds hydrant cap chain.....	.132	23 89
545	hexagon nuts, 1 1-8 inch.....	.0668	36 41
881	" " 7-8 inch.....	.0349	30 75
5886	pounds Bessemer steel rod, 1 5-16 round...	.04	235 44
38	screws for hydrant tags.....	.10	3 80
102	S hooks for hydrant tags.....	.03	3 06

BOXES.

46	Lowry boxes.....	\$3.60	165 60
53	Post boxes.....	3.80	201 40
12	Boston Lowry boxes.....	4.95	59 40
15	Boston boxes.....	3.36	50 40
69	stop-cocks, "small".....	3.10	213 90
2	stop-cocks, "large".....	3.74	7 48
21	hydrant box-tops.....	.50	10 50
29	gate box-tops.....	.41	11 89
583	inches hydrant box pieces.....	.0517	30 14
450	inches gate box pieces.....	.0425	19 13
32	No. 6 iron boxes.....	7.00	224 00
3	No. 8 " ".....	7.35	22 05
2	No. 16 " ".....	8.15	16 30
52	No. 78 " " pieces.....	1.35	70 20
52	No. 82 " " ".....	1.05	54 60
1	No. 83 " " ".....	1.55	1 55
4	No. 84 " " ".....	1.05	4 20
3	No. 79 " " ".....	2.25	6 75
33	No. 71 " " extension pieces.....	.90	29 70
42	No. 70 " " frames.....	2.00	84 00
2	No. 6 " " bases.....	1.10	2 20
34	No. 8 " " ".....	1.45	49 30
52	No. 16 " " ".....	2.25	117 00
7	combination Lowry tops with frames, 2,233 pounds.....	.0255	56 94
7	fountain sidewalk plates, 3,310 pounds....	.0255	84 41

FRAMES AND COVERS.

	Size.	Lbs.	Lbs.	Per Lb.	Value.
141	Lowry frames.....	22,560			
82	Post ".....	5,002			
6	B. Lowry ".....	534			
38	Boston ".....	2,310			
227	gate frames, small..	28,148			
34	gate " large...	3,706			
			62,260	\$0.016	\$996 16
3	Reservoir frames, B. F. D.....		1,020	.0225	22 95
<i>Carried forward</i>					\$167,204 66

WATER DEPARTMENT.

167

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$167,204 66
194 Lowry covers.....	36,860			
87 Post covers.....	6,264			
21 Boston Lowry covers	1,302			
72 Boston covers, heavy,	8,946			
5 Boston covers, light,	290			
382 gate covers, small...	35,144			
32 gate covers, large...	3,775			
46 B. O. covers.....	4,140			
35 elevator covers.....	3,084			
7 fire covers.....	616			
58 high-service covers, small.....	5,104			
24 high-service covers, large.....	2,616			
42 division covers, small	3,864			
14 " " large	1,470			
17 air-cock covers.....	1,530			
13 reservoir covers.....	1,170			
102 Lowry bonnets.....	6,220			
		122,395	\$0.016	1,958 32
4 reservoir covers, "B. F. D.".....		808	.0225	18 18

BOX LUMBER.

35,900 feet 2-inch spruce.....	\$0.02	718 00
5,500 " 2 " ".....	.023	126 50
45,380 " 1 " ".....	.016	726 08

NAILS.

220 pounds 4-d. wire nails.....	\$0.045	9 90
450 " 6-d. " ".....	.0395	17 78
775 " 8-d. " ".....	.0285	22 09
655 " 10-d. " ".....	.028	18 34
1,430 " 20-d. " ".....	.0275	39 33
50 " 30-d. " ".....	.0275	1 38
538 " 40-d. " ".....	.0275	14 80
5 " 60-d. " ".....	.0275	14

LEAD AND TIN PIPE.

44,116 pounds lead pipe.....	\$0.056	2,470 50
538 " tin-lined lead pipe.....	.10	53 80
605 feet lead-lined iron pipe.....	.1013	61 29
828 pounds 1-inch block-tin pipe.....	.20	165 60
494 " 5-8 inch block-tin pipe.....	.20	98 80

MAIN COCKS.

141 1-2 inch.....	\$0.40	56 40
498 5-8 ".....	.47	234 06
232 5-8 " angle.....	.52	120 64
182 3-4 ".....	.67	121 94
225 1-inch.....	1.21	272 25
5 1 " angle.....	1.64	8 20
68 1 1-4 inch.....	1.38	93 84
49 1 1-2 ".....	2.11	103 39

Carried forward..... \$174,736 21

SIDEWALK COCKS.			
No.	Size.	Per Lb.	Value.
<i>Brought forward</i>			\$174,736 21
2,779	5-8 inch.....	\$0.375	1,042 13
189	3-4 ".....	.65	122 85
213	1-inch.....	.94	200 22
5	1 1-4 inch.....	1.43	7 15
4	1 1-2 ".....	2.17	8 68
T-COCKS.			
29	5-8 inch.....	\$0.60	17 40
10	3-4 x 5-8 inch.....	.72	7 20
7	1 x 5-8 inch.....	.82	5 74
27	1 1-4 x 5-8 inch.....	.88	23 76
11	5-8 inch L. H.....	.90	9 90
12	5-8 " R. H.....	.90	10 80
MALE COUPLINGS.			
36	1-2 inch.....	\$0.09	3 24
217	5-8 ".....	.12	26 04
135	3 4 ".....	.16	21 60
234	1-inch.....	.22	51 48
156	1 1-4 inch.....	.40	62 40
35	1 1-2 ".....	.53	18 55
73	2-inch.....	.70	51 10
FEMALE COUPLINGS (NUTS).			
8	1-2 inch.....	\$0.04	0 32
1,693	5-8 ".....	.04	71 96
448	3-4 ".....	.10	44 80
188	1-inch.....	.13	24 44
88	1 1-4 inch.....	.19	16 72
74	1 1-2 ".....	.24	17 76
45	2-inch.....	.35	15 75
TUBES.			
105	1-2 inch.....	\$0.04	4 20
3,396	5-8 ".....	.04	135 84
195	3-4 ".....	.08	15 60
259	1-inch.....	.11	28 49
89	1 1-4 inch.....	.14	12 46
66	1 1-2 ".....	.22	14 52
90	2-inch.....	.34	30 60
PLUGS.			
177	1-2 inch iron plugs.....	\$0.07	12 39
157	5-8 " ".....	.07	10 99
45	3-4 " ".....	.08	3 60
129	1-inch " ".....	.11	14 19
66	1 1-4 inch iron plugs.....	.13	8 58
92	1 1-2 " ".....	.15	13 80
63	2-inch iron plugs.....	.19	11 97
AIR COCKS.			
55	1-inch.....	\$1.23	67 65
17	1 1-2 inch.....	3.04	51 68
5	2-inch.....	3.20	16 00
<i>Carried forward</i>			\$177,070 76

WATER DEPARTMENT.

169

		VALVES.	Per Lb.	Value.
No.	Size.			
<i>Brought forward</i>				\$177,070 76
17	1 1-2 inch Chapman		\$2.22	37 74
57	2-inch		3.87	220 59
50	2 " " repaired		.60	30 00

WATER POST COCKS.

7	1 1-4 inch	\$2.19	15 33
37	1 1-2 " "	2.93	108 41

SOLDER NIPPLES.

40	1-2 inch	\$0.13	5 20
197	3-4 " "	.17	33 49
18	1 " "	.21	3 78
60	1 1-4 " "	.43	25 80
54	1 1-2 " "	.47	25 38
170	2 " "	.55	93 50

METER NIPPLES.

3	5-8 inch	\$0.22	0 66
4	3-4 " "	.23	92
3	1-inch	.26	78
3	1 1-2 inch	.53	1 59
73	2-inch	.70	51 10

MAIN NIPPLES.

28	1 1-2 inch	\$0.51	14 28
42	2 " "	.69	28 98
8	2 1-2 " "	.79	6 32

HOSE NIPPLES.

72	2-inch	\$0.64	46 08
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HOSE COUPLINGS.

103	2-inch	\$0.67	69 01
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LEVER HANDLE STOP AND WASTE COCKS.

53	5-8 inch	\$0.98	51 94
11	3-4 " "	.88	9 68
1	1 " "	1.53	1 53
4	1 1-4 " "	2.26	9 04
3	1 1-2 " "	3.05	9 15
34	5-8 " T handle stop and waste cocks..	.77	26 18

CHECK VALVES

8	1 inch	\$1.22	9 76
5	1 1-2 " "	2.98	14 90
4	2 " "	4.38	17 52
2	8 " "	36.00	72 00

THIMBLES.

77	3-inch	\$0.77	59 29
20	4 " "	1.18	23 60
16	6 " "	1.42	22 72

Carried forward..... \$178,217 01

MISCELLANEOUS.

No.	Size.		Per Lb.	Value.
<i>Brought forward</i>				\$178,217 01
2	2 inch drip valves.....		\$5.38	10 78
10	5-8 " force pump couplings.....		.42	4 20
13	5-8 " male thawing couplings.....		.13	1 69
8	5-8 " female thawing couplings.....		.13	1 04
232	hose straps.....		.08	18 56
700	ft. 2 1-4 inch linen hose.....		.22	154 00
275	water post hose and couplings.....		1.68	462 00
845	sidewalk nuts.....		.03	25 35
6	lamp posts.....		13.00	78 00
679	ft. 2-inch enamelled pipe.....		.34	230 86
43	2-inch iron elbows.....		.27	11 61
139	2 " " couplings.....		.20	27 80
111	2 x 6 enamelled iron nipples.....		.21	23 31
2	1 1-2 inch brass elbows.....		.33	66
252	lbs. stick solder.....		.16	40 32
238	" wiping solder.....		.16	38 08
408	" pig tin.....		.3325	135 66
8	wharf hydrant nipples.....		.65	5 20
36	3-4 x 5-8 inch reducing tubes.....		.08	2 88
24	1 x 3-4 inch reducing tube.....		.11	2 64
111	3 x 2 reducing plugs.....		.40	44 40
9	5-8 inch hose bibbs.....		.375	3 38
		Lbs.	Lbs.	
1785	small service boxes.....	21,006		
92	large " ".....	2,475		
734	small " caps.....	2,936		
251	large " ".....	2,761		
679	sidewalk bottoms..	25,802		
7	combination up- rights.....	161		
16	service pipe plates.....	240		
817	3 ft. main tubes....	13,072		
386	3.5 ft. main tubes..	8,106		
315	4 ft. main tubes...	10,375		
			86,934	\$0.0255 2,216 82
154	1 ft. main extension tubes.....	1,848		
69	2 ft. main extension tubes.....	1,037		
54	3 ft. main extension tubes.....	1,242		
			4,127	\$0.0255 105 24
640	tops for sidewalk bottoms.....		.40	256 00
767	sidewalk bushings.....		.06	46 02
36	lead tacks.....		.075	2 70
4583	lbs. No. 2 unfinished composition.....		.1975	905 14
84	" " 3 " ".....		.15	12 60
13403	" unfinished cast iron.....		.0255	341 78
831	" partly finished composition No. 2...		.1975	164 12
146	" " " " 3...		.15	21 90
	Labor on partly finished composition.....			157 79

FOUNTAINS.

		Lbs.	Lbs.	
8	tops.....	5,440		
12	bases.....	7,740		
8	grates.....	2,600		
			15,780	\$0.0255 402 39
<i>Carried forward</i>				\$184,171 91

No.	Size.	Per Lb.	Value.
<i>Brought forward</i>			\$184,171 91
290	3-4 return bends enamelled	\$0.228	66 12
248	3-4 elbows .....	.06	14 88
443	3-4 couplings .....	.034	15 06
55	3-4 6-pipe hangers .....	.102	5 61
8	3-8 brass unions .....	.15	1 20
16	3-4 x 3-8 brass bushings .....	.063	1 01
15	3-4 5-way branches .....	.62	9 30
21	1-4 brass elbows .....	.06	1 26
3	3-8 brass couplings .....	.035	11
19	fountain check nuts .....	.82	15 58
9	fountain tubes .....	.65	5 85
3	coupling nuts for fountains .....	.35	1 05
4	fountain bolts .....	.20	80
12	3-4 brass unions .....	.27	3 24
4	fountain coolers	6.14	24 56
165	ft. 3-inch soil pipe .....	.105	17 33
83	3 inch soil pipe bends .....	.1925	15 98
93	3 inch soil pipe traps .....	.44	40 92
23	lbs. No. 2 unfinished composition .....	.1975	4 54
645	" unfinished cast iron .....	.055	35 48
40	" sheet brass .....	.30	12 00
58	" " copper .....	.255	14 79
198	" " zinc .....	.0825	16 34
73	Doherty cocks	2.31	168 63
99	yds. fountain chain .....	.0625	6 19
79	Doherty cock tops .....	.90	71 10
1852	ft. 3-4 inch enamelled pipe .....	.072	133 34

IRON AND STEEL.

OCTAGON STEEL.

Size.	Lbs.	Lbs.	Per Lb.	Value.
3-8 inch	17			
1-2 "	16			
5-8 "	63			
11-16 inch	27			
	<hr/>	123	\$0.125	15 38
7-8 inch	133			
3-4 "	26			
	<hr/>	159	.12	19 08
1 inch	51			
1 1-8 inch	28			
1 1-4 "	94			
1 1-2 "	73			
	<hr/>	246	.125	30 75
3-inch	141			
3 1-2 inch	149			
	<hr/>	290	.13	37 70

ROUND CAST STEEL.

3-8 inch	12		\$0.13	1 56
1-2 "	11		.12	1 32
5-8 "	29	61	.12	7 32
3-4 "	32			
1 inch	12		.065	78

Carried forward \$184,988 07

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$184,988 07
1 3-8 ".....	300		\$0.075	22 50
1 1-4 inch.....	15		.065	98
1 1-2 ".....	38		.075	2 85
1 5-8 ".....	9		0.13	1 17
1 3-4 ".....	284		.12	28 08
1 7-8 ".....	24		.13	2 88
2 1-4 ".....	161		.075	12 08
2 1-2 ".....	260		.06	15 60
2 3-4 ".....	37		.06	2 22
2 5-8 ".....	12 }			
3 3-4 ".....	18 }	296	.06	17 76
3 5-16 ".....	266 }			

SQUARE CAST STEEL.

9-16 inch.....	11		\$0.14	1 54
3-4 ".....	4		.065	26
7-8 ".....	52 }	56	.06	3 36
1 ".....	4 }			
1 1-8 ".....	231		.12	27 72
1 1-4 ".....	67 }	146	.075	10 95
1 1-2 ".....	79 }			
2 ".....	102 }	712	.075	53 40
4 ".....	610 }			

CAST STEEL.

1-4 x 1 inch.....	1		\$0.12	0 12
1-2 x 3-4 inch.....	7		.13	91
1-2 x 5-8 ".....	8		.125	1 00
1-2 x 1 ".....	35		.09	3 15
1-2 x 1 1-4 ".....	6		.07	42
1-2 x 2 1-2 ".....	110		.07	7 70
1-4 x 2 ".....	31		.13	4 03
3-8 x 2 1-2 ".....	25 }	31	.13	4 03
3-8 x 1 1-4 ".....	4 }			
3-8 x 1 1-2 ".....	2 }			
5-8 x 1 1-4 ".....	29		.13	3 77
5-8 x 2 1-2 ".....	51		.07	3 57
5-8 x 3 ".....	30		.13	3 90
1 x 1 1-2 ".....	196 }	261	.08	20 88
1 x 2 ".....	65 }			
2 x 2 1-2 ".....	19		.13	2 47

AIR HARDENING STEEL.

5-8 x 1 1-4 inch.....	22			
1 x 1 1-2 ".....	22			
		44	\$0.45	19 80

TIRE STEEL.

5-16 x 1 1-4 inch.....	354			
5-16 x 1 1-2 ".....	199			
9-16 x 1 3-8 ".....	80			
3-8 x 1 3-8 ".....	81			
1-4 x 7-8 ".....	61			
1-4 x 1 ".....	240			
		1,015	\$0.0315	31 97

Carried forward..... \$185,299 14

WATER DEPARTMENT.

173

TOOL STEEL (Square).

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$185,299 14
1-inch.....	88			
1 1-8 inch.....	118			
1 1-4 ".....	35			
1 3-8 ".....	55			
	<hr/>	296	\$0.16	47 36

BESSEMER STEEL (Round).

1-2 inch.....	23			
5-8 ".....	29			
7-8 ".....	42			
3-4 ".....	14			
13-16 inch.....	7			
	<hr/>	115	\$0.038	4 37
1-inch.....	614			
1 1-8 inch.....	226			
1 3-8 ".....	9			
1 1-2 ".....	245			
1 5-8 ".....	98			
1 3-4 ".....	142			
	<hr/>	1,334	\$0.035	46 69
1 5-16 ".....	15		.035	53
2 ".....	175			
2 7-16 ".....	33			
2 3-8 ".....	274	482	.03	14 46

BESSEMER STEEL (Square).

5-16 inch.....	67			
1-2 ".....	124			
5-8 ".....	48			
3-4 ".....	101			
	<hr/>	340	\$0.035	11 90
7-8 ".....	2,577		.08	206 16
1 ".....	21		.035	74
1 1-8 ".....	260			
1 1-4 ".....	40			
1 1-2 ".....	173	680	.03	20 40
2 ".....	197			
3 ".....	10			

BESSEMER STEEL.

3-8 x 1 inch.....	63			
3-8 x 1 3-8 inch.....	2			
3-8 x 2 ".....	60			
1-4 x 2 ".....	49			
1-4 x 2 1-4 ".....	12			
1-2 x 1 ".....	15			
1-2 x 2 ".....	94			
1-2 x 2 1-2 ".....	227			
1-2 x 3 1-2 ".....	19			
5-8 x 1 1-2 ".....	156			
5-8 x 2 ".....	26			
5-8 x 2 1-2 ".....	414			
	<hr/>	1,137	\$0.03	34 11
5-8 x 3 ".....	47			
5-8 x 6 ".....	110			

Carried forward..... \$185,685 86

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$185,685 86
1 x 2 1-2-inch.....	65			
1 x 3 ".....	38			
1 x 4 ".....	35			
2 x 3 ".....	130			
2 1-2 x 3 ".....	76			
3-4 x 5 ".....	160			
3-16 x 2 ".....	13			
3-16 x 2 1-2 ".....	39			
	<hr/>	713	\$0.03	21 39

NORWAY IRON (Round).

1-4 inch.....	57	\$0.04	2 28
5-16 ".....	30	.0475	1 43
3-8 ".....	339	.0425	14 41
7-16 ".....	70	.0375	2 63
9-16 ".....	155	.0375	5 81
1-2 ".....	586	.0425	24 90
5-8 ".....	409	.0425	17 38
7-8 ".....	882	.04	35 28

NORWAY IRON (Round).

3-4 inch.....	269	\$0.04	10 76
1-inch.....	179	.0425	7 61
1 1-8 inch.....	377	.0425	16 02
1 1-4 ".....	894	.04	35 76
13-8 ".....	258	.0425	10 96
15-8 ".....	80	.0425	3 40
1 1-2 ".....	121	.0375	4 54
3-4 ".....	396	.0425	16 83

NORWAY IRON (Square).

1-2 inch.....	327		
5-8 ".....	104		
3-4 ".....	133		
7-8 ".....	165		
1-inch.....	80		
1 1-8 inch.....	764		
1 1-4 ".....	849		
1 1-2 ".....	362		
13-4 ".....	108		
2 1-4 ".....	107		
4-inch.....	34		
	<hr/>	3,033	\$0.035
			106 16

NORWAY IRON.

1-8 x 13-8 inch.....	8	\$0.0325	0 26
3-16 x 1 1-2 ".....	40	.0425	1 70
3-8 x 5-16 ".....	27	.0375	1 01
3-8 x 1 ".....	116	.0325	3 77
3-8 x 2 ".....	79	.04	3 16
3-8 x 2 1-2 ".....	255	.0325	8 29
3-8 x 3 ".....	34	.0325	1 11
1-4 x 5-16 ".....	25	.0325	81

Carried forward..... \$186,043 52

WATER DEPARTMENT.

175

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$186,043 52
1-4 x 3-4 inch	47	93	\$.0325	3 02
1-4 x 1 "	48			
1-4 x 1 1-4 "	240			
1-4 x 1 1-2 "	118	503	.0425	21 38
1-4 x 1 1-4 "	23			
1-4 x 2 "	362			
1-4 x 2 1-4 "	18	40	.0375	1 50
1-4 x 2 1-2 "	22			
5-16 x 2 1-2 "	47			
1-2 x 3-4 "	29	223	.0425	9 48
1-2 x 1 "	194			
1-2 x 2 "	381			
1-2 x 1 1-2 "	230	1,161	.0325	37 73
1-2 x 3 1-2 "	38			
1-2 x 2 1-2 "	512			
1-2 x 3 "	65	54	.0325	2 11
1-2 x 4 "	75			
1-2 x 13-4 "	45			
1-2 x 15-8 "	9	54	.0425	2 30
9-16 x 1 "	106			
5-8 x 1 "	138			
5-8 x 1 1-4 "	173	227	.0375	6 49
5-8 x 1 1-2 "	221			
5-8 x 2 "	220			
5-8 x 2 1-2 "	53	227	.0425	9 65
5-8 x 3 "	174			
5-8 x 3 1-2 "	212			
11-16 x 2 1-4 "	74	170	.03	6 36
11-16 x 3 "	96			
3-4 x 1 1-4 "	32			

NORWAY IRON.

3-4 x 13-4 inch	16	911	\$.0325	29 61
3-4 x 2 "	895			
3-4 x 2 1-2 "	325			
3-4 x 3 "	298	338	.03	8 94
1 x 1 1-4 "	69			
1 x 1 1-2 "	169			
1 x 2 "	100	363	.0325	10 99
1 x 2 1-4 "	97			
1 x 2 1-2 "	112			
1 x 3 "	138	363	.0475	17 24
1 x 3 1-2 "	16			
1 1-4 x 3 "	116			
1 1-2 x 3 "	29	145	.03	4 35

REFINED IRON (Round).

3-4 inch	6	641	\$.0285	0 17
7-8 "	504			
1 "	137			
1 1-4 inch	292	1,211	.0285	18 27
13-8 "	76			
1 1-2 "	521			
13-4 "	57	1,211	.03	36 33
2 "	33			
2 1-4 "	90			
3 1-2 "	142			

Carried forward..... \$186,329 45

REFINED IRON (Square).

Size.	Lbs.	Lbs.	Per Lb.	Value.
<i>Brought forward</i>				\$186,329 45
1 1-2 inch.....	103	577	\$0.0295	17 02
1 3-4 ".....	13			
2 ".....	105			
2 1-2 ".....	155			
3 ".....	201			
3 1-2 ".....	438		.014	6 13

REFINED IRON.

1-4 x 1 3-4 inch.....	23	313	\$0.018	5 63
1-4 x 2 ".....	290			
3-8 x 1 ".....	584			
3-8 x 1 1-4 ".....	11	626	.0285	17 84
3-8 x 2 ".....	31			
1-2 x 1 1-4 ".....	44			
1-2 x 1 3-4 ".....	221	265	.0225	5 96
1-2 x 2 ".....	36			
1-2 x 2 1-2 ".....	157			
1-2 x 3 ".....	101	304	.02	6 08
1-2 x 5 ".....	10			
5-8 x 1 1-4 ".....	10			
5-8 x 1 5-8 ".....	315	552	.0285	29
5-8 x 1 3-4 ".....	126			
5-8 x 2 ".....	111			
5-8 x 2 1-2 ".....	70		.03	2 10
5-8 x 3 ".....	30			
3-4 x 1 1-4 ".....	137			
3-4 x 1 1-2 ".....	39	345	.0275	9 49
3-4 x 1 3-4 ".....	33			
3-4 x 2 ".....	76			
3-4 x 2 1-2 ".....	60	126	.018	2 27
1 1-4 x 2 ".....	32			
1 1-4 x 3 ".....	73			
1 1-2 x 1 3-4 inch.....	21		.014	84
7-8 x 1 1-2 ".....	60			

BAND IRON.

1-8 x 1 inch.....	48	105	\$0.035	3 68
1-8 x 1 1-4 inch.....	57			
1-8 x 1 1-2 ".....	52			
1-8 x 1 3-4 ".....	58	163	.035	5 71
1-8 x 2-inch.....	53			
1-8 x 2 1-2 inch.....	102			
1-8 x 3-inch.....	86	188	.03	5 64

ANGLE IRON.

1-2 inch.....	6	167	\$0.035	5 85
3-4 ".....	8			
7-8 ".....	10			
1 1-4 inch.....	22			
1 1-2 ".....	88			
2-inch.....	33			

Carried forward..... \$186,436 31

WATER DEPARTMENT.

177

SET SCREWS.

No.	Size.	Per Lb.	Value.
	<i>Brought forward</i>		\$186,436 81
95	7-16 x 1.....	\$0.0248	2 36
29	1-2 x 1 1-2 .....	.015	44
46	1 1-2 x 1 1-4.....	.015	69
23	1-2 x 3-4.....	.0225	32
28	5-8 x 1 1-2.....	.0165	46
1587	7-8 x 4.....	.14	222 18

BOLTS.

205	1-2 x 1 1-2, iron.....	\$0.0126	2 58
130	1-2 x 1 3-4 .....	.013	1 69
101	1-2 x 2 .....	.0193	1 95
40	1-2 x 2 1-2 .....	.012	48
45	1-2 x 3 .....	.0126	57
136	1-2 x 3 1-2 .....	.013	1 77
103	1-2 x 4 .....	.0138	1 42
27	1-2 x 5 .....	.0233	63
3	1-2 x 6 .....	.0233	07
100	1-2 x 7 .....	.0233	2 33
103	1-2 x 8 .....	.0233	2 40
70	1-2 x 10 .....	.07	4 90
36	9-16 x 2 3-4 .....	.013	47
185	9-16 x 5 1-4 .....	.013	2 41
2	5-8 x 1 1-4 .....	.0165	03
66	5-8 x 2 .....	.0492	3 25
303	5-8 x 2 3-4 .....	.0492	14 91
485	5-8 x 4 .....	.0307	14 89
61	5-8 x 5 .....	.0307	1 87
111	5-8 x 6 .....	.0431	4 78
101	5-8 x 7 .....	.0469	4 74
101	5-8 x 8 .....	.0507	5 12
102	5-8 x 10 .....	.0583	5 95
156	5-8 x 12 .....	.04	6 24
86	3-4 x 3 1-2 .....	.0314	2 70
49	3-4 x 5 .....	.035	1 72
27	3-4 x 5 1-2 .....	.0329	89
98	3-4 x 6 .....	.0702	6 88
20	3-4 x 7 .....	.0762	1 52
49	3-4 x 8 .....	.0452	2 21
101	3-4 x 9 .....	.0483	4 88
81	3-4 x 10 .....	.0576	4 67
56	3-4 x 12 .....	.19	10 64
77	3-4 x 15 .....	.19	14 63
103	7-8 x 4 .....	.0546	5 62
39	1 1-8 x 5 .....	.31	12 09
21	4 1-2 x 5-8, composition .....	.12	2 52

TAP BOLTS.

96	3-8 x 1 1-4, iron.....	\$0.015	1 44
29	3-8 x 1 1-2 .....	.015	44
65	1-2 x 1 1-4 .....	.015	98
88	1-2 x 1 3-4 .....	.0231	2 03
116	9-16 x 1 3-4 .....	.034	3 94
10	1-2 x 2 1-2 .....	.0198	20
94	1-2 x 3 .....	.0215	2 02
50	1-2 x 4 .....	.03	1 50
99	5-8 x 1 1-2 .....	.0287	2 84
76	5-8 x 2 .....	.0307	2 33
100	5-8 x 2 1-2 .....	.0287	2 87
100	5-8 x 3 .....	.0307	3 07
50	5-8 x 4 .....	.04	2 00

Carried forward..... \$186,844 84

SQUARE NUTS.

No.	Size.	Per Lb.	Value.
	<i>Brought forward</i>		\$186,844 84
610	1-2 inch.....	\$0.04	24 40
2	5-8 ".....	.04	08
569	3-4 ".....	.04	22 76
569	7-8 ".....	.055	31 30
53	1 ".....	.0608	3 22
53	1 1-8 ".....	.0432	2 29
30	1 1-4 ".....	.09	2 70
43	1 3-8 ".....	.07	3 01
16	1 1-2 ".....	.0914	1 46

HEXAGON NUTS.

92	5-8 inch.....	\$0.0215	1 98
6	1-2 ".....	.0215	13
2	3-4 ".....	.0215	04
15	1 ".....	.0215	32
48	1 1-4 ".....	.09	4 32

AXLE NUTS.

20	\$0.30	6 00
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WASHERS.

32	pounds, 1-4 inch.....	\$0.07	2 24
31	" 5-16 ".....	.14	4 34
21	" 3-8 ".....	.06	1 26
3	" 7-16 ".....	.065	20
18	" 9-16 ".....	.065	1 17
144	" 1 1-4 x 2 3-4 inch.....	.0225	3 24
155	" 1 3-8 x 3 ".....	.025	3 88
194	" 1 1-2 x 3 1-2 ".....	.0245	4 75
186	" 1 5-8 x 3 1-2 ".....	.0265	4 93

FINISHING NAILS.

127	pounds 6d.....	} 441 pounds	\$0.0385	16 98
108	" 8d.....			
74	" 10d.....			
132	" 12d.....			

LUMBER.

500	feet barn boards.....	\$0.035	17 50
156	feet 7-8 inch whitewood.....	.045	7 02
100	wooden' dowels.....	.015	1 50
635	feet 2-inch oak.....	.06	38 10
334	feet 7-8 inch oak.....	.09	30 06
320	feet 7-8 inch pine boards.....	.03	9 60
75	feet 1 1-8 inch pine boards.....	.06	4 50
100	feet 2-inch pine boards.....	.075	7 50
100	feet 3-inch pine boards.....	.085	8 50
150	feet 3 1-2 inch pine moulding.....	.0463	6 95
309	feet 7-8 inch hard pine.....	.03	9 27
552	feet 7-8 inch pine sheathing.....	.06	33 12
250	feet 3 x 10 hard pine.....	.03	7 50

Carried forward \$187,172 96

WATER DEPARTMENT.

179

No.	Size.	Per Ft.	Value.
<i>Brought forward.</i>			\$187,172 96
880 feet	6 x 8 hard pine	\$0.03	26 40
250 feet	1 3-4 inch hard pine moulding	.02	5 00
948 feet	3 x 4 spruce	} 4,613 feet .02	92 26
2325 feet	3 x 8 spruce		
225 feet	4 x 4 spruce		
470 feet	4 x 6 spruce		
645 feet	6 x 6 spruce		

PAINTS.

No. 34.	36 gallons	\$1.70	61 20
Bottle Green.	11 1-2 gallons	1.10	12 65
Green.	63 pounds	.12	7 56
Wrought Iron Paste	50 pounds	.04	2 00
Litharge.	10 pounds	.10	1 00
Lamp Black.	12 pounds	.16	1 92
Ivory Black.	20 1-2 pounds	.26	5 33
Ultra Blue.	16 pounds	.18	2 88
Burnt Umber	25 pounds	.12	3 00
Raw Umber.	28 pounds	.07	1 96
Burnt Sienna.	10 pounds	.10	1 00
Raw Sienna.	20 pounds	.10	2 00
Chrome Yellow.	33 pounds	.20	6 60
Metallic Paint.	30 gallons	1.25	37 50
P. B. Paint.	115 gallons	.55	63 25
White Lead.	525 pounds	.0612	32 13
Red Lead.	104 pounds	.06	6 24
Venetian Red (in oil).	100 pounds	.16	16 00
Vermilion.	5 pounds	.16	80
Oak Filler.	5 pounds	.14	70
Gold Leaf.	1 book	.35	35
Shellac.	10 1-4 gallons	2.50	25 63
Japan.	5 3-4 gallons	.50	2 88
English Vermilion.	11 pounds	1.10	12 10
Turpentine.	34 gallons	.55	18 70
Putty.	37 pounds	.02	74
Plumbago.	4 pounds	.12	48
Varnish.	9 gallons	3.00	27 00
Varnish (Rubbing).	3-4 gallons	3.00	2 25
Varnish (Body).	3-4 gallons	5.40	4 05
Boiled Oil.	71 gallons	.55	39 05
Raw Oil.	61 gallons	.53	32 33

DRAIN PIPE.

3-inch.	402 feet	\$0.0512	20 58
4-inch.	124 feet	.06	7 44
6-inch.	88 feet	.11	9 68
8-inch.	122 feet	.14	17 08
10-inch.	102 feet	.24	24 48
12-inch.	330 feet	.31	102 30
15-inch.	8 feet	.47	3 76
16-inch.	6 feet	.47	2 82
18-inch.	2 feet	.63	1 26

DRAIN PIPE BENDS.

3-inch.	87	\$0.16	13 92
4-inch.	15	.21	3 15
6-inch.	21	.35	7 35

Carried forward...... \$187,941 72

Size.		Per Ft.	Value.
<i>Brought forward</i>			\$187,941 72
8-inch.....	25	\$0.57	14 25
10-inch.....	36	1.02	36 72
12-inch.....	36	1.30	46 80

DRAIN PIPE REDUCERS.

10 x 6 inch	1	\$0.96	0 96
10 x 8 "	1	.83	83

DRAIN PIPE BRANCHES.

6 x 4 inch	1	\$0.43	0 43
10 x 6 "	2	.94	1 88
10 x 10 "	1	.94	94
12 x 6 "	14	1.23	17 22
15 x 10 "	2	3.24	6 48

DRAIN PIPE SLEEVES.

15-inch.....	4	\$0.70	2 80
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MISCELLANEOUS.

450 tons beach gravel.....		\$0.78	351 00
40 " gravel90	36 00
4 " crushed stone.....		1.875	7 50
10 barrels common cement.....		1.35	13 50
6 " Portland cement.....		2.65	13 90
2025 pounds clay .....		.003	6 08
1091 cord feet fire wood.....		.20	218 20
27 wooden wedges.....		.02	54
2700 bricks.....		.012	32 40
701 feet blocking.....		.02	14 02
35 pounds No. 2 unfinished composition....		.1975	6 91
11981 " unfinished cast iron.....		.0225	269 57
3684 " " " " .....		.0255	93 94
1047 " stove castings .....		.0255	26 70
216 " galvanized sheet iron .....		.0625	13 50
1 bundle clap boards.....		.80	80
16 pounds zinc .....		.0825	1 32
99 iron staples.....		.02	1 98
44 pounds ball wicking .....		.18	7 92
428 " spikes various sizes.....		.0185	7 92
200 " leather board.....		.055	11 00
907 " brass pipe and tubing.....		.14	126 98
362 " " rod various sizes.....		.23	83 26
97 " tallow.....		.0525	5 09
227 " sole leather .....		.30	68 10
53 " Phospho Bronze wire .....		.60	31 80
14 " lead kettles		1.56	21 84
8 " lead kettle handles .....		.53	4 24

Total..... \$189,547 04

PROPERTY.

IN THE GROUND.

33,671	linear feet of 48-inch distribution mains.					
16,813	"	"	42	"	"	"
23,104	"	"	40	"	"	"
39,984	"	"	36	"	"	"
82,049	"	"	30	"	"	"
244	"	"	28	"	"	"
83,902	"	"	24	"	"	"
96,700	"	"	20	"	"	"
155,356	"	"	16	"	"	"
1,056,936	"	"	12	"	"	"
81,432	"	"	10	"	"	"
502,439	"	"	8	"	"	"
1,436,102	"	"	6	"	"	"
108,564	"	"	4	"	"	"
7,536	"	"	3	"	"	"
3,485	"	"	2	"	"	"
472	"	"	16	"	hydrant, blow-off and reservoir pipes.	
7,052	"	"	12	"	"	"
105	"	"	10	"	"	"
2,740	"	"	9	"	"	"
1,139	"	"	8	"	"	"
32,375	"	"	6	"	"	"
8,677	"	"	4	"	"	"
3	"	"	3	"	"	"
1	48-inch gate.					
7	40	"	gates.			
26	36	"				
44	30	"				
67	24	"				
69	20	"				
258	16	"				
1,878	12	"				
173	10	"				
1,150	8	"				
4,363	6	"				
625	4	"				
10	3	"				
2,660	Lowry hydrants.					
776	Boston Lowry hydrants.					
3,222	Post hydrants.					
527	Boston "					
121	Drinking fountains of various styles for man or beast.					
81	Deacon meter cases or shells the mechanism of which is stored in the meter-room at the Albany street yard.					

710 ALBANY STREET.

98,100 feet of Land.

- 1 3 story brick building containing office, machine shop, plumbing shop, carpenter shop, meter-rooms, storeroom, deacon meter-room, pattern-makers' shop, blacksmith shop, engine-room and boiler-house.
- 1 2 1-2 story brick stable.
- 1 1-2 story wooden building used as a blacksmith, wheelwright and paint shop.

- 1 2 story wooden building used as an auxiliary stable and for storage.
- 1 1 story wooden building used for storage.
- 1 wooden shelter for wagons.
- 1 shelter shed for boom derrick attendant.

YARD.

24 kits of hand sets, 5 kits of pony sets, 185 cutting chisels, 15 cold chisels, 15 diamond points, 6 bull points, 21 S. C. wrenches, 16 gate wrenches, 47 Lowry wrenches, 4 Lowry combination wrenches, 8 Lowry squeezer wrenches, 20 Boston wrenches, 44 Post wrenches, 15 combination Post wrenches, 8 Post squeezer wrenches, 30 service wrenches, 15 sidewalk wrenches, 3 air-cock wrenches, 23 collar bolt wrenches, 3 fork wrenches, 20 monkey wrenches, 6 Stilson wrenches, 1 20-ft gate wrench, 1 brick hammer, 19 paving hammers, 35 hand hammers, 34 striking hammers, 15 stone hammers, 2 machinist's hammers, 10 tin dippers, 3 tin boilers, 4 wooden pails, 31 metal pails, 56 round point shovels, 2 square point shovels, 7 chain ropes, 1 curb chain, 7 hydrant chains, 3 6-in. pipe chains, 6 12-in. pipe chains, 20 16-in. pipe chains, 1 20-in. pipe chain, 1 24-in. pipe chain, 1 36-in. pipe chain, 1 40-in. pipe chain, 1 48-in. pipe chain, 16 wood axes, 4 hand axes, 7 hatchets, 5 grub axes, 54 rammers, 3 force pumps, 13 tin pumps, 8 Edison pumps, 6 brass pumps, 630 feet 5-8-in. thawing tubes, 30 feet 3-4 in. thawing tubes, 12 pairs rubber boots, 2 1-2-in. taps, 4 5-8 in. taps, 1 3-4 in. tap, 1 1-in. tap, 49 crow bars, 14 oil cans (1 gal.), 3 oil cans (5 gals.), 6 oil cans (10 gals.), 31 waste rods, 4 4-in. jointers, 11 6-in. jointers, 9 8-in. jointers, 7 10-in. jointers, 7 12-in. jointers, 5 16-in. jointers, 1 20-in. jointer, 1 3-in. jointer, 32 jointer clamps, 37 bursting wedges, 16 lifting wedges, 21 frost wedges, 14 gasketing irons, 20 picks, 3 50-ft. tapes, 5 corn brooms, 2 paver's brooms, 6 hand saws, 1 crosscut saw, 2 trowels, 30 flag poles (long), 6 flag poles (short), 27 flags, 1 dog for gate nuts, 6 spanners, 1 cock cleaner, 7 hand spikes, 9 goose necks, 3 spirit levels, 40 ft. 1 1-4 in. rope, 30 ft. 1-in. rope, 300 ft. marking lines, 2 die stock, 2 dies, 3 pipe tongs, 2 falls for shears (complete), 18 lead ladles, 15 lead kettles (S.), 2 lead kettles (L.), 8 lead furnaces (S.), 1 lead furnace (L.), 1 large lead furnace on wheels, 6 kettle hangers (small), 2 kettle hangers (large), 6 lead mounds, 22,500 shut-off notices, 8 3-in. leather packings, 28 2 1-2 in. leather packings, 36 2-in. leather packings, 5 1 1-2 in. leather packings, 1 6-in. puddling heads, 1 8-in. puddling head, 1 12-in. puddling head, 1 hydrant dog, 6 chucks, 4 16-in. derricks, 2 24-in. derricks, 1 30-in. derrick, 3 40-in. derricks, 1 48-in. derrick, 1 winch, 1 derrick hook, 550 ft. 2 1-2 in. hose, 9 lengths suction hose, 1 hose carriage, 1 tamping bar, 1 brick hod, 1 mortar hod, 85 lanterns complete, 1 large lantern, 10 lantern globes, 10 red-lantern globes, 1 emergency lantern, 4 roasters, 1 vise, 1 iron fence-guard, 12 gasoline torches, 26 lengths 2 1-2 in. wrought-iron pipe, 1 driller's box, 1 bit stalk, 1 bit, 4 straight-edges, 2 skids (4-in. x 6-in. x 12 ft.), 3 5-8 in. tap handles, 1 5-8 in. reamer, 4 33 x 32 window sashes, 1 24 x 20 window sash, 2 22 x 15 window sashes, 1 52 x 42 window sash, 6 45 x 32 window frames, 2 72 x 32 door screens, 1 83 x 29 door screen, 12 no-passing signs, 1 set large pipe wheels, 1 set small pipe wheels, 1 set hydrant wheels, 3 hand trucks, 1 platform truck (4 wheels), 1 platform truck (2 wheels), 2 tool houses, 4 trailers, 30 wooden horses, 5 canal barrows, 4 tool boxes, 10 lead-pipe reels, 1 1-in. drilling machine complete, 1 5-8 in. drilling machine complete, 1 swing saw table, 2 30-in. circular saws, 1 garden barrow, 2 tool-house stoves, 2 tool-house pipes, 1 large stove, 1 small stove, 1 2 1-2 in. nozzle, 5 wooden malls, 3 iron malls, 1 grading roller, 1 adjustable die stock, 2 2 1-2 x 5-8 in. reducers, 2 2 1-2 x 1 in. reducers, 38 lifting screws, 91 lifting bars, 351 screw hooks, 50 plates for lifting screws, 3 long ladders, 4 short ladders, 9 sets shears with shackles, 3 wire guy-ropes, 4 6-in. pulley blocks, 38-in. pulley blocks, 4 10-in. pulley blocks, 2 12-in.

pulley blocks, 1 60-ft. boom derrick complete, 1 blacksmith's fire-forge (brick), 15 barrels engine oil, 5 barrels rosin, 5 barrels kerosene oil, 10 gallons gasolene, 125 tons junk, 494 bags salt, 1 stone water-trough, 1 Jenck's fountain, 1,000 pounds old rope, 15 bushels charcoal.

MACHINE SHOP.

One piece 3 1-2 in. steam pipe, 20 in. long; 1 piece 3 1-2 in., close nipple; 1 piece 1 1-4 space nipple, 4 1-2 in. long; 1 piece 3-4 in. space nipple, 6-in. long; 2 pieces 3-4 in. space nipple, 4-in. long; 1 4-in. x 2-in. cast-iron tee, 12-in. nipple, 1 4-in. cast-iron elbow, 4 2-in. cast-iron couplings, 35 1 1-2 in. cast-iron couplings, 1 1-in. cast-iron coupling, 9 3-4 in. cast-iron couplings, 22-in. cast-iron elbows, 2 1 1-2 in. cast-iron elbows, 2 1-in. cast-iron elbows, 2 3-4 in. cast-iron elbows, 1 3-8 in. cast-iron elbow, 1 1 1-2 in. x 1 1-4 in. cast-iron elbow, 5 3-4 in. cast-iron tees, 3 1-in. right and left couplings, 1 1 1-4 in. right and left couplings, 3 2-in. x 1 1-2 in. bushings, 6 1 1-4 in. x 1-in. bushings, 3 1 1-2 in. plugs, 2 1 1-4 in. plugs, 2 3-4 in. plugs, 2 1 1-2 in. ground brass unions, 1 1 1-4 in. ground brass union, 14 2 1-2 in. x 1-2 in. lag screws, 2 lag-eyed bolts, 1 8-4 in. angle valve, 101 cast-iron rolls for steam pipe, 2 slugs for Deacon meter, 1 piece 2 1-2 in. hose, 10 pump valves, 1,000 lbs. old rubber junk, 1 piece 5-in. single leather belting, 25 ft. 4 in. long; 1 piece 5-in. double leather belting, 25 ft. 8 in. long; 2 pieces 4-in. double leather belting, 25 ft. 5 in. long; 1 piece 3 1-2 in. double belting, 50 ft. 9 in. long; 1 piece 2 1-4 in. double leather belting, 12-ft. long; 2 pieces 2-in. double leather belting, 37 ft. 8 in. long; 1 piece 3-in. double leather belting, 2 ft. long; 1 piece 3-in. single leather belting, 37-ft. 4-in. long; 1 piece 2-in. single leather belting, 14-ft. long; 1 piece 1 1-2 in. single leather belting, 9 ft. 5-in. long; 1 piece 1-in. single leather belting, 24 ft. 7 in. long; 1 piece 2 1-2 in. single leather belting, 3 ft. 10 in. long; 133 ft. of old belting, 8 1-4 in. belt lacings, 6 3-8 in. belt lacings, 2 pieces rawhide, 83 old picks and 200 to be resteeled, 2 lbs. borax, 1 cast-steel trip hammer die, 65 lbs.; 18 small wedges, 1 1-2 lbs.; 74 lbs. old composition junk, 4,850 lbs.; old composition junk, 9,200 lbs. brass chips junk, 2 12-in. puddling head straps, 2 1-2 in. x 1-2 in., 20 lbs.; 2 6-in. puddling head straps, 18 lbs.; 1 old screw junk, 6 2 1-2 in. x 5-8 in. reducing nipples, 1 Gisholt lathe, 24-in. swing, 10-ft. bed; 1 grinding machine, 1 engine lathe, 24-in. swing, 14-ft. bed; 1 engine lathe, 30-in. swing, 16-ft. bed; 1 engine lathe, 27-in. swing, 12-ft. bed; 1 engine lathe, 18-in. swing, 6-ft. bed; 2 engine lathes, 18-in. swing, 8-ft. bed; 1 engine lathe 15-in. swing, 6-ft. bed; 1 engine lathe, 14-in. swing, 6-ft. bed; 1 hand lathe, 16-in. swing, 5-ft. bed; 1 Fox lathe, 18-in. swing, 6-ft. bed; 1 Fox lathe, 14-in. swing, 5-ft. bed; 1 boring mill, 5-ft.; 1 radial drill, 1 upright drill, 30-in. swing; 1 upright drill, 19-in. swing; 1 cock grinder, 1 bolt cutter, with 13 taps and dies, 3-8 in. to 1-2 in.;— 3 jaws and 3 master taps; 1 machine for grinding reamers and 3 wheels; 1 planer, 20 in. x 20 in., 5-ft. bed; 2 grindstones mounted; 3 pressure gauges, 2 testing machines, 1 proving press, 15 bench vises, 4 old bench vises, 4 differential pulleys and chains, 2 dogs for drawing nuts, 1 dog for drawing gears, 27 parallel pieces for planer, 22 bed pins for planer, 11 bed pins with set screws, 5 lathe chucks, 4 jaws; 2 lathe chucks, 3 jaws; 1 lathe chuck, 2 jaws; 2 box chucks with cast-iron jaws, 3 small chucks, 5 brooms, 38 large square thread taps, 43 large "V" thread taps, 40 medium "V" thread taps, 121 small "V" thread taps, 18 bench brushes, 1 long handle brush, 1 feather duster, 3 emery wheels with arbors, 2 emery wheel dressers with 5 cutters, 6 gauges for coupling nuts, 1 long handle brush, 5 wrought-iron rings for trueing, 4 in., 6 in., 8 in., 10 in. and 12 in. gate rings, 4 cast-iron brackets, used in boring hydrants; 2 chucks for 6-in. gates sides, 1 chuck for 4 in. gate sides, 1 chuck for 3 in. gate sides, 2 steel sets for drawing 9 in. rings, 28 lbs.; 1 oil stand, 1 old oil stone, 6 iron wedges for gates, 1 iron wedge for gates, half finished; 5 small circular saws for metal, 2

small circular saw arbors, large angle iron, small angle iron, 1 pair pliers, 1 pair wire cutters, 4 lead moulds, 3 driving hammers, 1 large and 3 small sledges, 1 proving hammer, 1 3-8 in. hollow mill, 1 3-8 in. hand die, 1 belt punch and 2 awls, 2 old belt punches, 4 screw drivers, 4 small rests for lathe, 2 boring bars with holders, 100 lbs.; 2 gauges for 9-in. rings, 4 shoes for holding work, 1 pair centres for planer, 1 template for drilling hydrant tops, 1 socket die for 2 1-2 in. nipple, 1 socket die for 2-in. nipple, 2 small knurling tools, 3 mould boards for hydrant, 2 gauges for 2 1-2 in. nipple, 3 gauges for 4 1-2 in. nipple, 1 alcohol lamp, 2 small die stocks and 4 dies, 1 large die stock and 4 dies, 3 pairs calipers, 11 medium tap wrenches, 24 lbs.; 19 small tap wrenches, 14 lbs.; 8 large socket wrenches, 54 lbs.; 1 box taps and dies, 1-in. to 1-4 in.; 1 box do., 1-16 in. to 1-4 in.; 7 surface plates, 1 50-ft. tape line, 1 2-in. pipe tap, 1 old 2-in. pipe tap, 1 1-8 in. pipe tap and die, 1 steel stamp, "B. W. W."; 1 set 1-8 in. figures, 1 set 5-16 in. do., 1 set 1-2 in. do., 2 breast drills, 2 1-8 in. twist drills and taper shanks, 6 1-4 in. do., 8 5-16 in. do., 7 3-8 in. do., 3 7-16 in. do., 3 13-32 in. do., 3 15-32 in. do., 8 1-2 in. do., 2 7-16 in. do., 2 35-64 in. do., 6 9-16 in. do., 2 19-32 in. do., 3 5-8 in. do., 3 21-32 in. do., 5 23-32 in. do., 3 11-16 in. do., 4 3-4 in. do., 1 25-32 in. do., 2 13-16 in. do., 4 7-8 in. do., 2 15-16 in. do., 2 1-in. do., 2 1 1-16 in. do., 2 1 1-8 in. do., 2 1 3-16 in. do., 1 1 1-4 in. do., 1 1 9-16 in. do., 2 45-64 in. do., 1 47-64 in. do., 1 21-64 in. do., 1 19-64 in. do., 1 11-32 in. twist drill and straight shanks, 1 13-32 in. do., 1 27-64 in. do., 1 29-64 in. do., 1 15-32 in. do., 1 1-2 in. do., 1 21-32 in. do., 1 47-64 in. do., 2 3-4 in. do., 9 small twist drills, 48 large taper reamers, 15 small taper reamers, 13 rose reamers, 15 hollow mills and dies, 3 blank dies, 2 large counter sinks, 1 extension shank for radial drill, 3 milling cutters with arbors, 19 small socket wrenches, 6 steel reducers for drilling machine (1 1 1-2 in. to 1 1-4 in., 1 1 1-2 in. to 1-in., 1 1 1-2 in. to 3-4 in., 1 1 1-2 in. to 5-8 in., 1 1 1-4 in. to 5-8 in. 1 1-in. to 5-8 in.) extra taps for drilling machine (5 1 1-2 in. 4 1 1-4 in., 3 1-in., 5 3-4 in., 6 5-8 in.), 2 1-2 in., 17 5-8 in. 9 3-4 in., 8 1-in., 3 1 1-4 in., drills for drilling machines, 5 boxes with 5-8 in. drilling machine and tools, 6 5-8 in. taps for 5-8 in. drilling machine, 6 5-8 in. spindles for do., 8 5-8 in. drills for do., 7 ratches for do., 7 dogs for do., 3 boxes with 1 1-2 in. drilling machine and tools, 4 1 1-2 in. taps for 1 1-2 in. drilling machine, 2 1 1-2 in. drills for do., 3 1 1-2 in. cutters for do., 2 1 1-2 in. spindles for do., 2 spanners for do., 2 ratchets for do., 4 dogs for do., 1 box with machine for drilling 1 in., 3-4 in. and 5-8 in. cocks, 3 1-in. drills for drilling machine, 1 3-4 in. drill for do., 1 1 1-4 in. drill for do., 2 3-4 in. taps for do., 4 1-in. taps for do., 2 1 1-4 in. reamers for do., 2 1-in. reamers for do., 1 3-4 in. spindle for do., 1 1-in. spindle for do., 1 1 3-4 in. spindle for do., 1 box with 3-4 in. drilling machine and tools, 2 service wrenches, 19 oil cans, 322 1 1-4 in. to 5-8 in. lathe tools, 8 1 1-2 in. to 3-4 in. do., 293 1-in. to 1-2 in. do., 8 5-8 in. to 3-16 in. do., 41 1 1-2 in. to 1-in. do., 7 3-8 in. to 3-4 in. do., 47 5-8 in. round turret lathe tools, 27 hand-thread chasers, 25 drills for turret lathe, drills for speed lathe, 13 lbs.; 6 drilling machine forgings, 6 pieces 1-in. octagon steel, 14 lbs.; 6 1-in. drills for cocks, 2 milling cutters, 2 milling cutter tops, 3 taper shanks, uprights and drills, 20 clamp dogs, 59 lbs.; 7 1 1-2 in., 6 1 1-4 in., 4 5-8 in. rubber moulds, 57 flat drills, 115 lbs.; 118 common drills, 101 lbs.; 6 large taper shank drills, 22 lbs.; 21 old ratchet wrenches, 16 small fork wrenches, 18 small tap wrenches, 20 large tap wrenches, 9 large fork wrenches, 3 nut holders, taper shanks; 1 end mill, taper shank, 97 lbs. chucking drills, 140 lbs. flat drills, 5 "V" block planers, 128 lbs.; 1 10-in. gate valve shoe, 175 lbs. 1 12-in. gate do., 267 lbs.; 1 shoe for drilling caps, 4 lead ladles, 50 cutting chisels, 180 lbs.; 8 1 1-2 in. iron shackles for drilling machine, 1 washer cutter, 2 steel taper pins, 4 drifts, 2 7-16 in. x 1-4 in. fly screws, 36 lathe dogs, 17 12-in. monkey wrenches, 2 15-in. do., 2 24-in. do., 1 14-in. do., 2 16-in. do., 11 22-in. do., 17 hammers, 8 file brushes, 1 lathe brush, 3 1-gallon cans, 1 5-gallon can,

24 5-8 in. drills, 2 3-4 in. drills, 1 3-4 in., 5 5-8 in., 1 1-in. taps (new), 11 5-8 in. taps, slightly used; 1 26-in. diameter, 6 1-2 in. face, 2 7-16 in. hole, iron pulley; 3 10-in. diameter, 6 1-4 in. face, 1 3-8 in. hole do., 1 20-in. diameter, 4-in. face; 2 in. hole do., 2 15 5-8 in. diameter, 4-in. face; 1 3-8 in. hole do., 1 5 1-4 in. diameter, 3-in. face. 7-8 inch hole, do.; 1 12-in. diameter, 5 1-2 in. face; 3 1-2 in. hole, wooden pulley; 1 22-in. diameter, 10 3-4 in. face; 2 7-16 in. hole do., 1 14-in. diameter, 6 1-2 in. face; 2 7-16 in. hole do.; 1 10-in. diameter, 4 3-4 in. face; 3 1-2 in. hole do., 1 old counter shaft, 1 pulley, 10 rope slings, 2 14-in., 12 12-in. flat bastard files, 5 12-in., 3 10-in. second cut flat bastard files, 11 12-in., 6 10-in., 2 8-in., 12 6-in. flat files, 3 4 in., 2 6-in., 2 12-in. smooth files, 7 12-in. 1-2 round bastard files, 2 10-in. 1-2 round second cut files, 7 6-in. 1-2 smooth files, 6 12-in. x 1-2 in., 1 14-in. x 5-8 in., 3 10-in. x 3-8 in., 2 8-in. x 5-16 in., 3 6-in. x 1-4 in. round files, 1 6-in. rat tail file, 1 12-in. x 5-8 in., 2 12-in. x 1-2 in. square bastard files, 2 10-in. x 1-2 in. new smooth files, 9 10-in. x 3-8 in., 3 6-in. x 1-4 in. second cut smooth files, 4 6-in. parallel files, 2 10-in. x 5-8 in. 3 cornered files, 1 2-in. iron pulley block, 2 pair cutting pliers, 1 set 1-4 in. figures, 4 lbs. hammer handle wedges, 1 large pipe cutting wheel, 1 offset screw driver, 11 double end scrapers, 6 taper shank flat drills for 4-in. 6-in. and 8-in. gate valves, 3 wood turning tools, 3 old braces for drilling, 14 lbs.; 1 lot of steel chisels, 8 lbs.; 1 lot of steel sets, 16 lbs.; 3 set screw drills, screws for forging, 39 lbs.; 1 wooden shaft cleaner, 1 10 in. emery wheel and arbor, 4 blocks for milling taps in lathes, 11 tool rests for lathe drills, 26 lbs.; 5 pairs rubber boots, 4 pairs pinch bars, 17 lbs.; 5 plug arbors, 4 taper reamers, 6 square steel tapers, 4 bushings, 1 tap, 5 composition bushings for planer blocks for taps, 4 screw drivers, 1 burnisher, 2 hand tools, 3 washer jigs for cock washers, 34 lbs. boring bar cutters, 3 brooches, 268 lbs. arbors, 5 old handles for ratchet wrenches, 24 hobs, 8 large straight reamers, 14 small do., 4 drill chucks for upright drill with shanks, 1 machine for drilling post hydrant tops, 1 drill, extension shank; 60 ratchet drills, 26 lbs.; 3 in., 2 1-4 in., 1 7-8 in., 1 1-4 in., 1 1-8 in., 3-4 in., 2 1-2 in. punching dies for leather (one each).

BLACKSMITH SHOP.

One trip hammer, 4 anvils, 2 old anvils, 131 pairs tongs, 20 heading tools, 24 bottom swedges, 26 top swedges, 85 punches, 11 bottom fullers, 14 top fullers, 5 flatters, 8 set hammers, 23 cutting chisels, 1 pair calipers, 22 sledge hammers, 3 vises, 3 mandrills, 1 round edge set, 1 top and bottom cutting down tool, 2 swedge blocks, 1 bolt machine, 1 bolt cutter, 4 squares, 2 wooden horses, 1 tire roller, 1 tire upsetter, 8 files, 1 saw.

CARPENTER SHOP.

One circular saw table, 4 14-in. circular saws, 2 10-inch circular saws, 1 turning lathe, 1 set turning tools, 1 turning rest, 1 table and fixtures for grinding circular saws, 1 grindstone, 2 sets Jennings bits, 4 Jennings bits 1 1-8 in. to 1 3-8 in., 1 set extra long bits, 19 carpenter's wood chisels, 4 cold chisels, 8 hatchets, 4 bench saws, 7 hand saws, 6 monkey wrenches, 8 claw hammers, 2 striking hammers, 1 iron mallet, 8 iron bench vises, 2 spike pullers, 2 crowbars, 1 iron pointer plane, 1 iron smoother plane, 2 wooden jack planes, 1 wooden jointer plane, 1 spokeshave, 1 draw knife, 1 marking gauge, 1 measuring rod, 1 pair nippers, 2 bit stocks, 3 pairs calipers, 3 1-2 lb. striking hammer, 2 steel squares, 1 try square, 1 steel ripping chisel, 2 whetstones, 2 oil cans, 1 wood rimmer, 1 compass saw, 6 augers, 1 in. to 2 in.; 1 set channel bits, 3-8 in. to 2 in.; 20 miscellaneous augers, 3-8 in. to 3 in.; 1 cross-cut saw, 2 cant dogs, 6 1-in. to 2-in. boring machine bits, 1 boring machine, 1-2 dozen gimlet bits, 2 wooden mallets, 3 screw drivers, 4 auger handles, 9 chalk-line reels, 6 socket tee wrenches, 3 calking chisels,

19 hand screws, 6 5-ft. clamps, 2 8-ft. clamps, 1 square point shovel, 2 block rolls, 1 iron mitre box, 1 4 1-2 in. buck saw, 2 7-8 in. twist drills, 2 pairs 8-in. side-cutting nippers, 1 Clark's extension bit, 25 files, 1 saw clamp, 1 circular saw clamp and set, 2 ladder hooks, 300 ft. 2 3-4 in. rope, 100 ft. 2-in. rope, 3 emery wheels, 1 10-ft. ladder, 2 ice fountain wrenches, 2 ice fountain cover lifters, 2 glue pots, 3 shellac cans, 1 7-in. hoisting gin, 1 spirit level, 2 50-ft. measuring tapes, 10 gross screws, 2 packages brads, 15 lbs. sheet lead, 1-2 doz. drawer pulls, 1-2 doz. sash lifts, 3 pairs strap hinges, 2 pairs brass T hinges 1, doz. belt hooks, 25 lag screws, 4 pair 6 by 6 in. Acorn butts, 1 doz. wheelbarrow braces, 24 sheets sandpaper, 25 ft. canvas, 50 ft. window cord, 5 lbs. glue, 4 wheelbarrow handles, 2 tin dippers, 100 ladder rungs, 4 water pails, 1 desk, 2 chairs, 1 bench brush, 1 cuspidor, 4 sledge-hammer handles.

PAINT SHOP.

15 flat brushes, 19 round brushes, 14 sash tools, 5 dusters, 2 varnish brushes, 1 large putty knife, 1 gasoline torch, 6 hydrant pots, 4 tunnels, 4 window jacks, 4 roof hooks, 1 pair trusses, 1 bridge ladder, 2 wooden pails, 1 10-gallon can, 5 5-gallon cans, 1 3-gallon can 1 2-gallon can, 2 1-gallon cans.

WHEELWRIGHT SHOP.

17 sets wheel rims, 5 sets sunshade bows, 2 pieces 48-in. dasher wood, 1 set wheel hubs, 14 pairs wagon and buggy shafts, 135 wheel spokes, 4 pieces pung runners, 4 sets wagon axles, 19 wagon springs, 1 new buggy wheel, 2 bolt cutters, 1 screw plate, 2 buggy circles, 2 vises, 1 saw, 1 hatchet, 1 bitstock and 7 bits, 1 drill machine, 4 drill bits, 2 hand screws, 4 thumb screws, 1 anvil, 1 wagon wrench, 1 pole iron, 1 endless chain pulley, 2 wheel stools, 2 wagon jacks, 6 14-inch files, 10 buggy whip sockets, 6 wagon whip sockets, 12 wagon sand bands, 17 shaft tips, 1 strip shaft rubber, 10 yards buggy fringe, 22 T bolts, 16 whiffletree springs, 5 whiffletree rings, 18 shaft shackles and couplings, 2 buggy king bolts, 1 lb. yokes, 10 shaft coupling bolts, 107 axle bed clips, 7 nickel apron fasteners, 1 package saddle nails, 10 spring end couplings, 12 buggy whiffletree couplings, 10 binding hooks, 18 spring end bolts, 23 holdbacks, 10 ft. trace loop leather, 1 set buggy axle arms, 9 buggy shaping irons, 9 spring chairs, 5 wagon whiffletree couplings, 4 wagon-seat pads, 4 wagon-seat hinges, 2 iron clamps, 46 5-16 x 2 1-2 in. carriage bolts, 15 5-16 x 3 in. do., 18 5-16 x 3 1-2 in. do., 3 5-16 x 4 in. do., 15 5-16 x 4 1-2 in. do., 10 5-16 x 5 in. do., 13 5-16 x 6 in. do., 28 3-8 x 2 1-2 in. do., 20 3-8 x 3 in. do., 15 3-8 x 3 1-2 in. do., 12 3-8 x 4 in. do., 12 3-8 x 5 in. do., 30 7-16 x 4 in. do., 24 7-16 x 5 in. do., 17 7-16 x 6 in. do., 18 1-2 x 5 in. do., 19 1-2 x 6 in. do., 21 1-4 x 2 in. do., 22 1-4 x 2 1-2 in. do., 22 1-4 x 3 in. do., 18 3-16 x 1 3-4 in. tire bolts, 28 3-16 x 2 in. do., 7 3-16 x 2 1-2 in. do., 75 1-4 x 3 in. do., 150 5-16 x 3 in. do., 100 1-4 x 3 in. rivets, 108 3-8 in. nuts, 1 package 3-4 in. screws, 1 1-2 x 3-16 in. washers, 1 claw hammer, 1 draw knife.

PLUMBING SHOP.

12 leather bags, 12 fork wrenches, 12 monkey wrenches, 12 solder irons, 12 grease boxes, 16 pairs tongs, 12 hammers, 12 rasps, 12 bending irons, 12 turnpins, 12 shave hooks, 12 5-8 in. stretching bolts, 12 3-4 in. stretching bolts, 22 5-8 in. sweating bolts, 9 plumber's furnaces, 1 testing machine for shop, 1 blast furnace, 1 pipe and thread-cutting machine, 4 vises, 1 watering pot, 1 lead axe, 4 lead ladles, 4 solder pots, 11 plumber chests, 10 pipe tongs, 3 pipe cutters, 3 oil cans, 3 dye stocks, 1 cast-iron pipe cutter, 2 plumbing irons for shop, 2 service pipe wrenches, 1 3-in. Stilson wrench, 1 lead pot, 1 scales, 1 lead truck, 61 1-in hangers for pipe, 1 pair bench shears, 3 pairs hand do., 1 swedging machine, 3 bench stakes, 1 tin ruler, 1 folding machine,

2 wooden mallets, 2 screw drivers, 4 testing rods, 3 iron drills, 8 2-in. sweating bolts, 8 1-2 in. do., 14 1-4 in. do., 7 1-in. do., 10 3-4 in. do., 17 5-8 in. do., 2 brass mallets, 8 force pump handles, 6 sidewalk nut wrenches, 1 set of old dies for cutting washers, 1 50-ft. tape line, 2 14-in. Stilson wrenches, 2 pairs hose pliers, 4 2-in. stretching bolts, 6 1 1-2 in. do., 2 1-4 in. do., 2 1-in. do., 6 furnace grates, 1 ball of twine, 7 force pumps, 1 set weights for scales, 2 2-in. plugs for pulling lead, 1 table, 1 desk, 2 chairs, 1 level, 1 set calking tools, 1 set washer cutters, 1 2-in. right and 1 2-in. left tap, 2 1 1-2 in. right and 1 1 1-2 in. left do., 1 1 1-4 in. right and 1 1 1-4 in. left tap, 1 1-in. right and 1 1-in. left do., 2 3-4 in. right and 1 3-4 in. left do., 1 1-2 in. right and 1 1-2 in. left do., 1 3-8 in. right and 1 3-8 in. left do., 1 1-4 in. right and 1 1-4 in. left do., 1 1-8 in. right and 1 1-8 in. left do., 5 1 1-2 in. bushings, 3 1 1-4 in. bushings, 1 1-in. do., 1 3-4 in. do., 2 1-2 in. do., 2 3-8 in. do., 2 1-4 in. do., 2 1-8 in. do., 12 1-2 in. to 3-4 in. machine dies, 4 1-4 in. to 3-8 in. do., 4 1 1-2 in. to 2-in. do., 4 1-in. to 1 1-4 in. do. 2 cutters, 1 5-8 in. spindle, 1 horse shoe rasp, 3 2-in. right and 1 2-in. left dies, 4 1 1-2 in. right and 1 1 1-2 in. left do., 5 1 1-4 in. right, 2 1 1-4 in. left do., 4 1-in. right and 2 1-in. left do., 5 3-4 in. right and 2 3-4 in. left do., 1 1-2 in. right and 2 1-2 in. left do., 2 3-8 in. right and 1 3-8 in. left do., 1 1-4 in. right and 2 1-4 in. left do., 1 1-8 in. right do.

PATTERN SHOP.

One 3 x 6-in. pattern for making branches, 2 6 x 4-in. do., 2 6 x 6-in. do., 1 8 x 3-in. do., 2 8 x 4-in. do., 2 8 x 6-in. do., 2 8 x 8-in. do., 1 10 x 4-in. do., 2 10 x 6-in. do., 2 10 x 8-in. do., 3 10 x 10-in. do., 1 12 x 4-in. do., 2 12 x 6-in., 1 12 x 6-in. pattern for making hydrant branches, 2 12 x 8-in. do., 1 12 x 10-in. do., 2 12 x 12-in. do., 2 16 x 6-in. do., 1 16 x 4-in. pattern for blow-off branches, 2 16 x 6-in. patterns for making branches, 1 16 x 8-in. do., 1 16 x 10-in. do., 1 16 x 12-in. do., 1 16 x 16-in. do., 3 3-in. patterns for making curves, 3 4-in. do., 3 6-in. do., 3 8-in. do., 3 10-in. do., 3 12-in. do., 3 16-in. do., 2 20-in. do., 2 24-in. do., 1 3-inch pattern for making caps, 1 4-in. do., 1 6-in. do., 1 8-in. do., 1 10-in. do., 1 12-in. do., 1 16-in. do., 1 3-in. pattern for making sleeves, 1 4-in. do., 1 6-in. do., 1 8-in. do., 1 6-in. do., 1 10-in. do., 1 12-in. do., 1 16-in. do., 1 20-in. do., 1 4 x 3-in. pattern for making reducers, 1 6 x 4-in. do., 1 8 x 6-in. do., 1 10 x 8-in. do., 1 12 x 6-in. do., 1 12 x 8-in. do., 1 12 x 10-in. do., 1 16 x 10-in. do., 1 16 x 12-in. do., 1 20 x 12-in. do., 1 20 x 16-in. do., 1 24 x 16-in. do., 1 3-in. pattern for making offset, 1 4-in. do., 1 6-in. do., shallow, 1 6-in. do., deep, 1 8-in. do. (deep), 1 8-in. do. (shallow), 1 12-in. do., 1 10-in. do., 1 3-4 in. pattern for making plugs, 4 1-in. do., 2 1 1-4 in. do., 3 1 1-2 in. do., 2 2-in. do., 1 pattern for meter frame and cover (heavy), 1 do. light, 1 pattern for gate frame and cover (small), 1 pattern for Lowry frame, cover and bonnet, 1 pattern for blow-off cover, 1 pattern for elevator cover, 1 pattern for heavy gate frame and cover, 2 patterns for division covers, 1 pattern for post hydrant frame and covers, 1 pattern for Boston Lowry frame and cover, 1 pattern for hydrant cover, 1 pattern for high service cover, 1 do. for division cover (heavy), 1 do. for fire pipe cover, 1 do. for reservoir gate cover (small), 1 do. for salt water gate cover, 1 do. for air-cock cover, 1 do. for division cover (plain), 1 do. for hydrant frame and cover, special (used in Harbor service), 1 do. for small service cover, 1 do. for service stop-cock cover, 1 do. for ice-box frame, bonnet and cover, 1 do. for making 3-in. gate, 24 pieces; 1 do. for making 4-in. gate, 26 pieces; 1 do. for making 6-in. gate, 40 pieces; 1 do. for making 8-in. gate, 33 pieces; 1 do. for making 10-in. gate, 28 pieces; 1 do. for making 12-in. gate, 34 pieces; 1 do. for making 16-in. gate, 27 pieces; 1 do. for making 20-in. gate, 50 pieces; 1 do. for making 24-in. gate, 41 pieces; 1 do. for making 30-in. gate, 51 pieces; 1 do. for making 36-in. gate, 61 pieces; 1 pattern for making Lowry hydrants, 55 pieces; 1 do. for making post hydrants, 69 pieces; 1 do. for making Lowry extensions, 8 pieces; 1 do. post hydrant exten-

sion, 9 pieces; 1 do. Boston Lowry pots, 13 pieces; 1 do. for making post hydrant pots, 8 pieces; 1 do. for making Lowry pots, 162 pieces; 1 do. for making Boston Lowry hydrants, 37 pieces; 1 do. for making Batchelder post hydrants, 45 pieces; 1 do. for making salt water hydrants, 54 pieces; 1 do. for service and sidewalk fittings, 104 pieces; 1 do. for main fittings, 134 pieces; 1 do. for meter fittings, 112 pieces; 1 do. for angle irons, 7 pieces; 1 do. for bars, 5 pieces; 1 do. for chucks, 4 pieces; 1 do. for check valve for salt water connections, 5 pieces; 1 do. for derrick box, 4 pieces; 1 do. for derrick sheave, 2 pieces; 1 do. for drilling machine, 41 pieces; 1 do. for drinking fountains, 22 pieces; 1 do. for extension ladders, 4 pieces; 1 do. for female couplings for water-posts, 3 pieces; 1 do. for fish-traps, 6 pieces; 1 do. for furnace tops, 4 pieces; 1 do. for formers for 4-in., 6-in. and 8-in. pipe, 3 pieces; 1 do. for gates, 7 pieces; 1 do. for gear stand, 1 piece; 1 do. for 40-in. gate, 9 pieces; 1 do. for 6-in., 8-in., 10-in., 12-in. and 16-in. puddling heads, 5 pieces; 1 do. for lead kettle, 1 piece; 1 do. for moulds and smallett heads, 2 pieces; 1 do. for nozzle, 4 pieces; 1 do. for pot-rim, 2 pieces; 1 do. for pump-fittings, 32 pieces; 1 do. for 16-in. tool-house wheel, 2 pieces; 1 do. for trip-hammer dies, 4 pieces; 1 do. for post washers, 1 piece; 1 do. for wrenches complete, 9 pieces; 1 do. for wheelbarrow fittings, 1 piece; 1 do. for ice water fountains, 31 pieces; 1 do. for rammer bottoms, 2 pieces; 1 do. for stove bottom, 1 piece; 1 do. for saddle for salt water relief valve, 3 pieces; 1 do. for B. W. D. stamp, 1 piece.

STOREROOM.

3,850 5-8 in. leather packing, 2,080 3-4 in. do., 1,450 1-in. do., 580 1 1-4 in. do., 250 1 1-2 in. do., 380 2-in. do., 74 2 1-2 in. do., 68 3-in. do., 24 iron reducing couplings, 19 1-8 in. iron couplings, 14 1-4 in. do., 22 3-8 in. do., 36 1-2 in. do., 30 3-4 in. do., 13 1-in. do., 69 1 1-4 in. do., 9 1 1-2 in. do., 3 3-8 in. brass couplings, 7 1-2 in. do., 5 3-4 in. do., 2 1-in. do., 3 1 1-4 in. do., 3 1 1-2 in. do., 1 2-in. do., 14 1-8 in. iron nipples, 42 1-4 in. do., 57 3-8 in. do., 61 1-2 in. do., 53 3-4 in. do., 147 1-in. do., 30 1 1-4 in. do., 27 1 1-2 in. do., 3 3-4 in. brass nipples, 29 1-in. do., 9 1 1-4 in. do., 8 1-4 in. iron unions, 5 1-2 in. do., 6 3-4 in. do., 9 1-in. do., 5 1 1-4 in. do., 7 1 1-2 in. do., 22 2-in. do., 9 1-2 in. brass unions, 16 1-in. do., 4 1 1-4 in. do., 6 1 1-2 in. do., 8 3-in. do., 2 1-8 in. elbows, 40 3-8 in. do., 26 1-2 in. do., 9 3-4 in. do., 43 1-in. do., 18 1 1-4 in. do., 16 1 1-2 in. do., 147 2-in. do., 9 1-2 in. brass elbows, 6 3-4 in. do., 2 1-in. do., 4 1 1-4 in. do., 24 iron elbows, 9 brass reducing elbows, 4 1-2 in. iron reducing tees, 14 3-4 in. do., 28 1-in. do., 6 1 1-4 in. do., 7 1 1-2 in. do., 28 2-in. do., 2 2 1-2 in. do., 1 1-4 in. iron cap, 29 3-8 in. do., 26 1-2 in. do., 23 3-4 in. do., 25 1-in. do., 25 1 1-4 in. do., 12 1 1-2 in. do., 31 2-in. do., 13 1-8 in. iron tees, 14 1-4 in. do., 62 3-8 in. do., 42 1-2 in. do., 43 3-4 in. do., 47 1-in. do., 11 1 1-4 in. do., 14 1 1-2 in. do., 12 2-in. do., 3 3-8 in. brass tees, 1 1-2 in. do., 7 3-4 in. do., 1 1-in. do., 29 1-4 in. iron plugs, 5 3-8 in. do., 15 1-2 in. do., 24 3-4 in. do., 15 1-in. do., 15 1 1-4 in. do., 11 1 1-2 in. do., 21 2-in. do., 16 3-8 in. x 1-4 in. iron bushings, 20 1-2 in. x 3-8 in. do., 12 3-4 in. x 1-2 in. do., 24 1-in. by 3-4 in. do., 12 1 1-4 in. x 1-in. do., 15 1 1-2 in. x 1 1-4 in. do., 11 2-in. x 1 1-2 in. do., 3 2 1-2 in. x 2-in. do., 3 3-in. x 2-in. do., 3 3-in. x 2 1-2 in. do., 9 3-8 in. x 1-4 in. brass bushings, 7 1-2 in. x 3-8 in. do., 9 3-4 in. x 1-2 in. do., 1 1-in. x 3-4 in. do., 3 1 1-4 in. x 1-in. do., 2 1 1-2 in. x 1 1-4 in. do., 2 2-in. x 1 1-2 in. do., 45 2 1-2 in. male hose couplings (junk), 10 3-in. do., 50 2 1-2 in. female couplings, 16 iron return bends, 4 3-4 in. iron crosses, 14 1-in. do., 3 2-in. do., 10 3-4 in. side outlet tees, 35 3-8 in. iron drop elbows, 35 3-8 in. iron drop tees, 1 1 1-4 in. Y branch, 1 1 1-2 in. do., 8 2-in. do., 3 3-4 in. 45 deg. iron elbows, 11 1-in. do., 8 2-in. do., 14 pipe hooks, 33 floor flanges, 144 lbs. 3-16 in. block tin, 56 lbs. 1-4 in. do., 249 ft. 3-8 in. wrought-iron pipe, 624 ft. 1-2 in. do., 156 ft. 3-4 in. do., 226 ft. 1-in. do., 119 ft. 1 1-2 in. do., 2 1-2 in. check valves, 3 1 1-4 in. do., 11 3-4 in. do., 6 3-4 in. valves, 5 3-8 in. do., 5 1-4 in. do., 3 1-2 in. do., 23 1-in. do., 1 6-in. do., 6 1 1-4 in. do., 9 3-4 in. angle valves, 1 1 1-4 in. do., 1 1 1-2 in.

do., 1 1-8 in. air valve, 6 ball cocks, 8 wood axes, 9 hand do., 11 grub do., 4 ice do., 1 adze, 51 lbs. muriatic acid, 2 lbs. sulphuric do., 6 lbs. nitric do., 4 1-2 gals. alcohol, 4 gals. wood alcohol, 261 lbs. soda ash, 1 anvil (old), 7 lbs. sal ammoniac, 3 lbs. antimony, 1 ship auger, 237 3-16 in. x 1 1-2 in. tire bolts, 265 3-16 in. x 1 3-4 in. do., 541 3-16 in. x 2-in. do., 260 3-16 in. x 2 1-2 in. do., 176 3-16 in. x 3-in. do., 510 1-4 in. x 2-in. do., 594 1-4 in. x 2 1-2 in. do., 529 1-4 in. x 3-in. do., 537 1-4 in. x 3 1-2 in. do., 96 1-4 in. x 4 in. do., 200 1-4 in. x 5 in. do., 121 5-16 in. x 2-in. do., 304 5-16 in. x 2 1-2 in. do., 235 5-16 in. x 3-in. do., 546 5-16 in. x 3 1-2 in. do., 161 5-16 in. x 4-in. do., 64 3-16 in. x 2-in. carriage bolts, 80 3-16 in. x 2 1-2 in. do., 72 3-16 in. x 3-in. do., 82 1-4 in. x 1-in. do., 240 1-4 in. x 1 1-2 in. do., 290 1-4 in. x 2-in. do., 357 1-4 in. x 2 1-2 in. do., 243 1-4 in. x 3-in. do., 134 1-4 in. x 3 1-2 in. do., 247 1-4 in. x 4-in. do., 128 5-16 in. x 2-in. do., 203 5-16 in. x 2 1-2 in. do., 140 5-16 in. x 3-in. do., 308 5-16 in. x 3 1-2 in. do., 217 5-16 in. x 4-in. do., 38 5-16 in. x 4 1-2 in. do., 50 5-16 in. x 5-in. do., 44 5-16 in. x 6 in. do., 178 3-8 in. x 1 1-2 in. do., 64 3-8 in. x 2-in. do., 105 3-8 in. x 2 1-2 in. do., 66 3-8 in. x 3-in. do., 40 3-8 x 3 1-2 in. do., 184 3-8 in. x 4-in. do., 25 3-8 in. x 4 1-2 in. do., 97 3-8 in. x 5-in. do., 128 3-8 in. x 6 in. do., 50 1-2 in. x 2-in. do., 43 1-2 in. x 2 1-2 in. do., 209 1-2 in. x 3-in. do., 33 1-2 in. x 3 1-2 in. do., 93 1-2 in. x 4-in. do., 100 1-2 in. x 4 1-2 in. do., 66 1-2 in. x 5-in. do., 66 1-2 in. x 6-in. do., 98 7-16 in. x 2-in. do., 97 7-16 in. x 2 1-2 in. do., 50 7-16 in. x 3-in. do., 50 7-16 in. x 3 1-2 in. do., 80 7-16 x 4-in. do., 40 7-16 in. x 4 1-2 in. do., 97 7-16 in. x 5-in. do., 206 7-16 in. x 6-in. do., 35 3-8 in. x 2 1-2 in. wagon spring bolts, 44 3-8 in. x 3-in. do., 7 3-in. x 6 in. x 8 in. door bolts, 13 5-8 in. stretching bolts, 6 1-inch do., 92 lbs. sweating bolts, 27 stove bolts all sizes, 25 6-in. lag bolts, 1 waste basket (old), 7 wire baskets, 40 wagon-shade brackets, 11 gas brackets, 8 pole do., 132 lbs. borax, 5-8 in. double sheave blocks, 1 9-in. do., 2 10-in. do., 2 11-in. do., 2 12-in. do., 1 12-in. 3-sheave block, 9 lbs. blueing, 11 hack-saw blades, 24 crowbars, 2 cross bars for Edson pump, 4 brake sockets for same, 30 ft. 1-in. belting (new), 10 ft. 2-in. belting, 172 lantern burners, 50 gas burners, 384 lantern bases, 11 rosin boxes, 1 derrick shaft box, 7 street roller do., 57 2-in. leather pump do., 22 large rubber pump do., 7 small do., 8 force pump boxes, 7 tool do., 2 drilling do., 18 oatmeal do., 30 gas bracket do., 82 corn brooms, 3 whisk brooms, 4 rattan do., 3 scrubbing brushes, 9 trough do., 6 floor do., 4 bench do., 3 machinist do., 1 window do., 6 shoe do., 5 shoe-dauber brushes, 20 No. 1-0 round paint do., 25 No. 3-0 round paint do., 49 flat paint do., 17 sash tool do., 7 pencil do., 5 stencil do., 2 whitewash do., 2 glaziers' dust do., 9 horse do., 4 mane do., 3 lbs. bone black, 7 boxes blacking, 5 bags (horse feed), 12 stable blankets, 4 street do., 185 lbs. Babbitt, 10 lbs. beeswax, 56 prs. 3 x 2 1-2 in. acorn butts, 12 prs. 3 x 3-in. acorn butts, 20 prs. 2 x 2-in. fast butts, 4 4-in. narrow fast butts, 12 3-4 in. butts, brass middles, 17 1 1-2 in. do., 5 2-in. do., 3 2 1-2 in. do., 1 7-8 auger bitt, 13 auger bitts all sizes, 187 lbs. brimstone, 13 lbs. powdered brick, 8 lbs. 1-2 in. wire brads, 9 lbs. 5-8 in. do., 7 lbs. 3-4 in. do., 4 lbs. 7-8 in. do., 5 lbs. 1-in. do., 2 lbs. 1 1-4 in. do., 4 lbs. 2-in. do., 26 prs. rubber boots (new), 41 prs. rubber boots (old), 1 pump bowl, 1 1-in. turn buckle, 3 1 1-4 in. do., 3 1 3-8 in. do., 1 2-in. do., 12 steel brands (B. W. D.), 9 wood do., 1 blast blower (old), 5 bushel baskets, 7 drill bits, 8 Lowry chucks, 1 4-way Lowry chuck (old), 2 3-in. clamps (2 ft. long), 1 3-in. clamp (3 ft. long), 15 6-in. iron screw clamps, 16 10-in. do., 1 14-in. do., 4 Argan chimneys, 1 1-2 lbs. 3-8 in. round copper, 49 lbs. 1 3-4 in. do., 9 driving caps, 41 1-gal. oil cans, 3 5-gal. do., 6 10-gal. do., 1 1-qt. paint can, 5 2-qt. do., 2 large oil do. with cocks, 10 covers for machine-shop furnace, 3 covers for street-roller boxes, 11 stove-covers, 20 pail-covers, 11 cutting chisels, 2 cold do., 28 yds. cheese cloth, 232 sheets Emery cloth, 230 sheets crocus do., 1 lb. rubber do., 62 pcs. white chalk, 27 pcs. (carpenter) white do., 27 pcs. blue do., 3 lbs. red do., 83 sticks red crayon lumber chalk, 72 lbs. 1-2 in. drill machine chain, 555 lbs. chain (all sizes), 400 ft. dipper chain, 35 lbs.

elastic cement, 1-2 can' rubber cement, 270 ft. No. 5 window cord, 1,300 ft. No. 8 do., 16 chair casters, 4 packing cutters, 3 plough do., 1 2-in pipe do., 1 3-in. pipe do., 1 1-in. pipe do., 1 wire do., 30 gas cocks, 21 curry combs, 2 blanket chests, 32 lbs. fire clay, 1 book and 1 file case, 8 lead pump clappers, 2 cuspidors, 7 chairs, 3 file cards, 4 horse cards, 70 snap catches, 5 forge do., 20 glass oil cups, 1 side gauge glass oil cup, 6 lbs. calking cotton, 2 prs. ladder clutches, 2 ash cans, 51 ft. 2-in. magnesia pipe-covering, 3 stone dogs, 18 pump diaphragms, 6 thawing dippers, 145 fountain do., 67 blank do., 21 long-handle do., 45 lbs. flake disinfectant, 68 lbs. stick do., 1 3-8 in. valve discs, 5 1-2 in. do., 13 3-4 in. do., 8 1-in. do., 6 1 1-4 in. do. 6 1 1-2 in. do., 5 2-in. do., 6 screwdrivers, 204 twist-drills (all sizes), 2 18-in. feather dusters, 1 roll-top desk, 91 dippers (to be repaired), 37 discs for Jenkins valve, 345 screw eyes (all sizes), 40 pail ears, 6 4-in. stove elbows, 5 6-in. do., 1 6-in. flange do., 1 1-2 lbs. powdered emery, 4 fire extinguishers, 55 4 1-2 in. flat files, 83 6-in. do., 86 8-in. do., 96 10-in. do., 290 12-in. do., 30 14-in. do., 12 5-in. square do., 31 6-in. do., 15 8-in. do., 26 10-in. do., 28 12-in. do., 10 16-in. do., 12 6-in. knife-blade do., 30 4-in. taper do., 5 5-in. do., 103 6-in. do., 27 8-in. do., 36 10-in. do., 41 6-in. half-round do., 60 8-in. do., 48 10-in. do., 49 12-in. do., 11 14-in. do., 10 4-in. round do., 23 6-in. do., 24 8-in. do., 23 10-in. do., 12 12-in. do., 23 14-in. do., 33 12-in. and 14-in. flat-tonged rasps, 7 12-in. horse do., 9 12-in. wood do., 17 12-in. half-round do., 11 garden forks, 4 manure do., 14 hay do., 13 6-in. ball floats, 1 large ball float, 11 small lead furnaces, 39 B. W. D. signal flags, 2 sets steel figures, 14 stove fronts, 16 lbs. rice flour, 5 sash fasteners, 54 lbs. felting, 191 lantern globes, 3 gas globes, 19 5-8 x 12-in. gauge glasses, 11 3-4 x 12-in. do., 13 3-4 x 15-in. do., 16 1 3-4 in. level do., 8 3-in. do., 14 3 1-2 in. do., 40 lights glass (9 x 12), 23 12 x 18-in. do., 13 12 x 20-in. do., 12 11 x 19-in. ground do., 5 lbs. hand-hole gasket, 2 lbs. manhole gasket, 120 lbs. axel grease, 10 lbs. belt do., 54 7-in. furnace grates, 122 10-in. do., 2 14-in. do., 15 pressure gauges, 36 lbs. dry glue, 3 pts. Le Paiges do., 2 goose-necks, 36 set guards, 2 lights glass (23 x 18), 5 30 x 15 do., 1 34 x 17 do., 1 13 x 16 do., 2 25 x 36 do., 660 pick-handles, 357 sledge do., 262 hammer do., 14 valve do., 49 axe do., 24 hay-fork do., 5 mop do., 3 rammer handles, 66 pail do., 1 gong do., 2 force pump do., 75 file do., 4 branding iron do. (old), 13 prs. chest do., 14 6-in. puddling heads (complete), 8 8-in. puddling heads, 4 10-in. do., 8 12-in. do., 5 16-in. do., 29 striking hammers, 7 peen do., 24 driving do., 6 claw do., 8 paving do., 10 machinist do., 1 trip do. (old), 315 lag screw hooks, 3 grass do., 4 ice do., 100 belt do., 8 harness do., 142 coat do., 9 bench do., 90 hooks and eyes (3 in.), 35 ceiling hooks, 9 shave hooks, 413 2-in. pipe hangers, 47 lead kettle do., 18 door do., 5 iron hoes, 1 furnace do., 12 scuffle do., 7 halters, 11 shingling hatchets, 79 ft. 3-4 in. rubber hose, 200 ft. 1-in. do., 100 ft. 1 1-2 in. do., 100 ft. 1 1-2 in. linen do., 1150 ft. 2 1-2 in. fire do., 28 pcs. 2 1-2 in. fire (junk) do., 60 ft. 2 1-2 in. suction do., 30 ft. 3-in. do., 8 ft. gas do., 3 prs. 6-in. T hinges, 17 prs. 8-in. do., 15 prs. 12-in. do., 1 pr. 6-in. strap do., 12 prs. 8-in. do., 12 prs. 12-in. do., 18 stable do., 16 6-in. hinge hasps, 26 10-in. hinge do., 1 padlock do., 14 rubber heels, 1 set branding irons, 24 gasket irons, 7 bending do., 3 solder do., 1 Hall electric indicator, 2 Hancock inspirators, 8 bottles black ink, 2 4-in. main pipe jointers, 3 6-in. do., 4 8-in. do., 2 10-in. do., 2 12-in. do., 4 16-in. do., 5 20-in. do., 5 24-in. do., 2 30-in. do., 5 36-in. do., 3 40-in. do., 2 42-in. do., 1 48-in. do., 5 jaws and nuts for 24-in. Stilson wrench, 7 clipping knives, 4 weeding do., 1 paint do., 29 wood drawer knobs, 27 padlock keys, 121 lbs. kip leather, 9 lbs. buggy shaft do., 59 lanterns, 131 lbs. sheet lead, 4 3-in. lead ladles, 3 9-in. do., 5 10-in. do., 6 5-in. do., 15 1-4 in. belt lacings, 51 3-8 in. do., 53 1-2 in. do., 2 1-4 gals. (star) leather polish, 6 thumb latches, 39 iron padlocks, 10 2 1-4 in. Yale locks, 9 drawer locks, 12 Yale drawer locks, 14 chest do., 27 rim do., 1 sliding door lock, 1 set letters, 5 stove lifters, 7 spirit levels, 18 boxes lubricant, 50 lbs. lime, 5 bench legs, 14-ft. step ladder,

1 5-ft. do., 1 6-ft. do., 12 12-ft. do., 1 1-pt. tin measure, 1-qt. do., 1 2-qt. do., 1 gall. do., 10 mops, 1 Gage testing machine, 3 6-in. Rabbitt machines, 2 12-in. do., 1 lot of fittings for do., 370 lbs. main pipe thawing tubes, 24 service pipe thawing tubes, 1 spike maul, 432 bunches matches, 3 lbs. 10d copper nails, 3 lbs. 3-4 in. clout nails, 7 lbs. 3-4 in. tinned clout do., 16 3-16 in. blank nuts, 22 1-4 in. do., 8 5-16 in. do., 13 3-8 in. do., 18 1-2 in. do. 4 Edson pump do., 2 1-2 lbs. spirits nitre, 27,000 notices, 3 3-4 in. hose nozzles, 6 2 1-2 do., 2 gals. lard oil, 8 gals. neatsfoot do., 1-2 gal. sperm do., 4 qts. castor do., 7 Draper oilers, 1-2 lb. oakum, 10 boxes Lathrops hoof ointment, 6 (7-gal.) tin pails, 109 galvanized iron do., 20 wooden do., 12 force pump do., 2 letter presses (old), 8 2 1-4 in. side pulleys, 10 2-in. ceiling do., 6 awning do., 17 screw do., 16 sash do., 23 upright do., 765 2-in. wood plugs, 49 3-in. do., 76 4-in. do., 32 6-in. do., 37 8-in. do., 13 10-in. do., 16 12-in. do., 17 16-in. do., 2 20-in. do., 3 24-in. do., 25 lbs. sheathing paper, 68 lbs. wrapping do., 6 lbs. 1-4 in. brass pipe nickeled, 1,264 sheets sandpaper, 2 hose strap plyers, 1 water pot, 20 ft. 4-in. stove pipe, 18 ft. 6-in. do., 1 gal. "Sureshine" polish, 99 packages sword polish, 21 packages armor do., 156 ft. 1-2 in. pipe for Rabbitt machine, 14 lbs. 3-8 in. American packing, 1 ball asbestos do., 10 rolls 3-8 in. Seldon's do., 11 rolls 5-8 in. do., 5 rolls 3-4 in. do., 9 lbs. Jenkins do., 1 lb. rainbow do., 85 ft. 1-2 in. Chesterton do., 4 ft. 5-8 in. do., 14 ft. 7-8 in. do., 14 lbs. plaster paris, 3 brass pumps, 4 2-in. bilge do., 1 copper do. (small, old), 1 1 1-2 in. Harrison do. (old), 1 No. 2 Douglass do. (old), 2 large Worthington do. (old), 1 Challenge do. (old), 2 force do., 1 Blake do. (old), 1 drip oil pan, 2 wooden pump plungers, 68 drawer pulls, 232 picks 4 1-2 lbs. yellow Prussian potash, 5 lbs. cyanide potassium, 16 1-8 in. split pins, 23 3-16 in. split do., 46 1-4 in. do., 79 5-16 in. do., 12 diamond points, 1 pipe stock and die, 6 bull pointers, 2 plumb bobs, 50 lbs. 1-4 in. rope, 8 lbs. 1 1-2 in. do., 160 lbs. 2-in. do., 47 lbs. 2 1-2 in. do., 350 lbs. 3-in. do., 303 3 1-2 in. do., 605 lbs. 4-in. do., 10 lbs. wire do., 10 5-8 x 4 in. drilling rubbers, 9 5-8 x 6 in. do., 11 5-8 x 8 in. do., 12 5-8 x 10 in. do., 13 5-8 x 12 in. do., 15 5-8 x 16 in. do., 6 1 x 4-in. do., 7 1 x 6-in. do., 6 1 x 8-in. do., 4 1 x 10-in. do., 9 1 x 12-in. do., 3 1 x 16-in. do., 1 1 1-2 x 6-in. do., 3 1 1-2 x 8-in. do., 3 1 1-2 x 10-in. do., 3 1 1-2 x 12-in. do., 3 1 1-2 x 16-in. do., 2 1 1-2 x 20-in. do., 1 1 1-2 x 30-in. do., 12 6-in. puddling head rubbers, 4 8-in. puddling-head rubbers, 7 10-in. do., 12 12 in. do., 4 16-in. do., 1 ring for testing head (rubber), 47 lbs. sheet rubber, 117 lbs. jointer rubber, 11 long-handle rammers, 5 paving do., 40 street do., 1 3-4 in. hose reel, 13 iron rakes, 4 hay rakes, 6 scythe rifles, 1 lot 2 1-2 in. brass railing, 7 posts, 2 hydt. rods, 1 radiator, 180 lbs. rosin, 3 lbs. 1-2 in. iron rivets, 10 lbs. 1-in. do., 8 lbs. 2-in. do., 81 lbs. 3-in. do., 24 lbs. 4-in. do., 10 lbs. tinned do., 12 lbs. 1-2 in. copper do., 10 lbs. 1-in. copper do., 6 1 1-4 in. do., 5 lbs. 2-in. do., 21 lead pipe reel, 14 gas globe-rings, 133 rubbers for gage glasses, 98 1-4 in. x 2-in. lag screws, 87 1-4 in. x 2 1-2 in. do., 284 3-8 in. x 2-in. do., 181 3-8 in. x 2 1-2 in. do., 318 3-8 in. x 3-in. do., 120 3-8 in. x 3 1-2 in. do., 86 3-8 in. x 4 in. do., 79 3-8 in. x 5-in. do., 1 3-8 in. x 6 in. do., 84 1-2 in. x 2 in. do., 56 1-2 x 2 1-2 in. do., 52 1-2 in. x 3-in. do., 122 1-2 in. x 3 1-2 in. do., 87 1-2 in. x 4 in. do., 104 1-2 in. x 5 in. do., 95 1-2 in. x 6 in. do., 139 1-2 in. x 8-in. do., 103 5-8 in. x 3 in. do., 125 5-8 in. x 3 1-2 in. do., 128 5-8 in. x 4 in. do., 164 5-8 in. x 3 in. do., 51 5-8 in. x 6 in. do., 50 5-8 in. x 7 in. do., 53 5-8 in. x 8 in. do., 3 1-2 gross 3-8 in. iron wood screws, 28 gross 1-2 in. do., 22 gross 5-8 in. do., 26 gross 3-4 in. do., 17 gross 7-8 in. do., 36 gross 1-in. do., 52 gross 1 1-4 in. do., 61 gross 1 1-2 in. do., 24 gross 2-in. do., 1-2 gross 2 1-4 in. do., 19 1-2 gross 2 1-2 in. do., 11 gross 3-in. do., 1 gross 3 1-2 in. do., 1-4 gross 1-in. brass wood screws, 1 gross 1 1-2 in. do., 1 gross 2-in. do., 50 3-8 in. iron machine screws, 220 1-2 in. do., 133 3-4 in. do., 20 1-in. do., 419 1 1-4 in. do., 131 2 1-2 in. do., 350 5-8 in. do., 577 1-2 in. brass machine screws, 168 1 1-4 in. do., 2 gross 1-2 in. round-head wood screws, 1 1-2 gross 3-4 in. do., 1 1-2 gross 1-in. do., 2 gross 1 1-4 in. do., 2 gross 1 1-2

in. do., 4 bench do., 4 jack do., 7 2-in. valve do., 1 kit setts, 3 pony kit setts, 210 No. 2 round-point shovels, 31 No. 2 square-point do., 5 No. 3 scoop shovels, 2 No. 6 scoop do., 10 post-hole scoops, 151 lbs. sand, 3 18-in. compass saws, 13 26-in. hand do., 1 split circular saw, 3 cross-cut do., 1 hand cross-cut do., 5 spades, 2 hose spanners, 10 cock spanners, 53 "H" signs for hydrants, 21 "no-passing" signs, 129 flag-staffs, 46 lbs. castile soap, 20 lbs. harness do., 72 pieces Kirkman's soap, 72 packages soapine, 8 chamois skins, 3-4 gallon sulphur naphthol, 17 lbs. pulverized sulphur, 1 lb. salt, 1 1-2 lbs. rotten stone, 15 lbs. pumice stone, 6 scythe stones, 1 "no-passing" stencil, 4 "B. W. D." do., 4 numbered do. (1 to 0), 3 "alphabet" do., 35 "letter" do., 12 surcingles, 280 lbs. sal soda, 26 gas swingers, 36 wood stakes, 3 lbs. 1-2 in. staples, 14 hand-spikes, 1 inkstand, 2 No. 10 Fairbanks scales, 3 grocer's scales, 9 door springs, 1 door-check do., 3 tool-house stoves, 3 ball-strainers, 6 summer horse-sheets, 42 ft. fly-screen, 3 ice shavers, 39 sponges, 2 2 1-2 in. siphons, 3 snaths, 29 lbs. copper screening (old), 2 12-in. pipe tongs, 12 plumber's do., 1 ice do., 32 6-in. tunnels, 77 sheets tin, 13 sheets roofing do., 3 sheets perforated do., 2 ice-water tanks (old), 1 oil tank, 1 lot glass gage-tubing (old), 130 packages iron tacks, 3 packages 5-8 in. copper do., 139 gas tips, 1 drawing table, 2 walnut do., 2 8-in. thermometers, 26 tape-lines, 2 tops for machine shop furnace, 25 torches, 875 shipping tags, 5 horse tags, 36 balls twine, 6 turnpins, 3 8-in. trowels, 3 small taps, 27 ft. door track, 2 steam traps (old), 9 lead traps, 1 kit cobbler's tools, 15 3-in. post hydrant rubber valves, 9 Edson top valves, 1 bench vise (old), 1 wagon pipe-vise, 9 Lowry wrenches, 9 Boston do., 9 Post do. (old pattern), 62 do. (new pattern), 8 service pipe do., 23 wharf hydrant do., 3 chain do., 145 sidewalk nut do., 10 sidewalk Deacon meter do., 44 5-8 in. fork do., 12 12-in. Coes do., 7 15-in. Coes do., 1 10-in. Bornstein do., 2 8-in. Coes do., 1 8-in. Stillson do., 1 24-in. do., 2 36-in. do., 3 18-in. Trimo do., 1 24-in. do., 18 ratchet do., 16 spindle do., 35 Lowry and Post nut do., 27 3-4 in. and 5-8 in. coupling nut do., 35 1-in. and 3-4 in. do., 2 2-in. and 1 1-2 in. do., 58 torch wicks, 1,440 lantern wicks, 21 lbs. whiting, 80 lbs. brass wire, 41 lbs. iron do., 30 lbs. copper do., 20 lbs. barbed do., 1 spool electric wire, 2 gallons witch hazel, 153 lbs. cotton waste, 20 elevator weights, 14 lifting and hydrant bolt wedges, 7 garden wheel-barrows, 27 canal do., 10 track wheels, 1 emery do., 6 whips, 8 speaking-tube whistles, 9 stopcock wrenches, 184 hot water faucet washers, 16 frost wedges, 1 2 1-2 in. x 2-in. Boston "Y," 13 zincs for batteries.

DEACON METER ROOM.

85 Deacon meter mechanisms, stored in the meter room, 76 new style meter clocks, 3 old style meter clocks, 60 clock springs, 37 braided copper weight wires, 36 brass connecting wires, 87 1 1-4 in. Yale padlocks, No. 833, 14 6-in. rubber gaskets, 2 copper oil cups, 3 dusting brushes, 502 registering diagrams (12,000 United States gallons), 783 do. (13,000 United States gallons), 1,500 do. (20,000 gallons), 3920 do. (25,000 gallons), 2 volt meters and one ammeter with wire and testing rods, 30 section men's badges, No. 1 to No. 30, 35 fire badges (issue of 1899), 9 gate wrenches, 1 meter nut wrench, 4 service pipe wrenches, 2 blow-off meter plug wrenches, 3 5-8 in. steel pinch bars, 1 1-in. steel pinch bar, 1 iron cleaning scoop, 8 picks (one arm), 1 long handle square point shovel, 4 small square point shovels, 1 sidewalk ice cutter, 1 brass pump 4 ft. x 1 1-4 in., 1 galvanized iron pump 7 ft. x 3 in., 1 pair cutting pliers, 1 13 ft. work bench, 1 3 1-2 in. face bench vise, 1 meter repairing table, 2 6-in. testing heads, 1 8-in. do., 1 10-in. do., 6 miscellaneous cleaning rods, 5 brass pressure gauges, 7 lanterns complete, 7 lanterns without globes, 3 bull's-eye lanterns, 1 6-gal. tin pail, 1 zinc pail, 2 wooden pails, 4 1-gal. oil cans, 1 zinc-lined box, 22 in. x 22 in. x 26 in., 1 3-in. brass reduction coupling, 1 1-2 in. compression hose bibb, 8 pounds cotton waste.

ENGINE AND BOILER ROOM.

1 steam damper regulator, 1 Fairbanks scales, 1 iron wheelbarrow, 2 Sturtevant blowers and 300 ft. galvanized iron pipe used in conjunction with same, 1 C. H. Brown engine, 50 horse power, 2 Sturtevant engines, 5 horse power each, 3 oil tanks, 2 boilers, 50 horse power each, 2 steam pumps, 1 return tank, 3 steam traps, 1 feed water heater, blocks, tackle and sister hooks, 2 shovels, 1 hoe, 4 pokers, 2 iron pails, 2 brooms, 4 oil cans, 50 gals. engine oil, 20 gals. lard oil, 4 monkey wrenches, 1 pipe wrench, 40 gals. cylinder oil, 4 cold chisels, 1 steam tube blower, 40 ft. 3-4 in. hose, 1 desk, 1 clock, 1 axe, 1 crowbar, 1 ladder, 1 vise, 10 tons coal, 1 bench.

OFFICE.

12 roll top desks, 1 15-ft. oak cashier's desk, 5 black walnut counter desks, 3 flat top black walnut desks (small), 2 flat top black walnut desks, 13 feet x 5 feet, 1 oak typewriter desk, 1 oak table, 1 black walnut table, 1 cabinet desk, 12 chairs for roll-top desks, 9 high office chairs, 9 low office chairs, 5 common chairs, 1 Remington typewriting machine No. 6, 3 black walnut cabinets for stationery, 2 black walnut wardrobes, 1 black walnut bookcase, glass front, 1 whitewood cabinet with drawers, 2 chests of drawers, 1 18-ft. counter, 1 combination lock safe, 2 combination lock vaults, 3 letter copying presses, stands, pads, etc., 3 Howard clocks, 1 roll wrapping paper and cutter, 1 chest of drawers containing maps, plans, etc., 12 Bromley atlases and cabinet for same, 1 pressure gauge, 1 recording gauge, 1 20-ton Fairbanks scales, 5 steam radiators, 5 thermometers, 19 waste baskets, 17 cuspidors, 1 iced water tank, 1 water cooling apparatus, 3 mirrors, 2 student's lamps, 2 feather dusters, 6 whisk brooms, 4 small black walnut cabinets, 1 small whitewood cabinet, 2 card catalogue cases, gas-fixtures, window shades, signal bells, annunciators, speaking tubes, toilet appurtenances, etc., dictionary, directories, stationery and paraphernalia for office business, 1 standing pine desk, 1 pine typewriter desk, 1 old Remington typewriting machine No. 3, 1 flat top oak desk.

STABLE.

11 driving horses, 21 work horses, 13 driving harnesses, 14 express single do., 4 sets heavy double do. in fair condition, 2 sets do. in good condition, 1 set light double do., 3 top buggies, 7 open do., 650 bushels oats, 12,650 lbs. hay, 8,350 lbs. straw, 500 lbs. shorts, 10 bushels Indian meal, 51 bbls. English vegetable food, 28 halters, 28 street blankets, 28 stable blankets, 23 surcingles, 18 1-horse wagons, 1 2-horse manure wagon, 1 2-horse jigger, 1 1-horse gig, 2 street rollers, 1 2-horse emergency wagon, 1 pipe truck, 1 democrat wagon, 1 1-horse jigger, 1 ton carrots, 1 pair over-reaching boots, 1 pair interfering do., 1 poulticing do., 3 good pungs, 8 pungs, no good, 1 sled, 5 sleighs, 1 horse sling, 4 hoisting blocks, 900 ft. rope, 14 square point shovels, 17 sleigh bells, 20 ft. cord, 11 halter rings, 6 staples, 2 S. hooks, 1 hatchet, 1 pair pincers, 5 check reins, 11 martingales, 13 iron pails, 7 hay forks, 2 manure forks, 8 floor brooms, 3 grain measures, 1 feed truck, 1 feed trough, 1 feed box, 1 harness oil pan, 8 lbs. harness soap, 2 tin cans, 1 shoe boil boot, 1 calking boot, 2 blanket chests, 1 medicine bottle, 2 1-gallon bottles, 2 monkey wrenches, 12 wagon do., 14 buggy do., 2 cold chisels, 250 ft. 2 1-2 in. hose, 3 nozzles for same, 40 ft. 5-8 in. hose, 3 iron sinks, 36 brick holders, 19 currycombs, 18 horse body brushes, 12 mane brushes, 8 mane cards, 12 sponges, 3 hame straps, 4 nose straps, 3 neck tag straps, 1 claw hammer, 2 1-gallon oil cans, 2 squirt oil-cans, 1 hand saw, 1 weight strap, 6 flannel bandages, 1 singeing lamp, 3 lbs. castile soap, 2 bridle bits, 1 1-2 cans hoof ointment, 10 ft. wire rope, 1 box brass polish, 1 wire

muzzle blanket, 1 leather muzzle, 2 boxes axle grease, 3 lbs. cotton waste, 1 pair felt foot pads, 1 pair rubber foot pads, 4 light robes, 9 fall do., 7 buffalo robes, 1 cotton fly net, 1 rotary clipping machine, 8 heads for same, 1 belt punch, 7 carriage mats, 8 horse weights, 7 horse whips, 180 leather washers, 1 carriage puller, 1 wringer, 1 whisk broom, 2 wooden carriage jacks, 2 wagon do., 1 stepladder, 2 pairs double hack saddles, 1 pole strap, 4 odd cruppers, 3 express saddles, 1 pair driving reins, 6 double whiffletrees, 2 pair 4-horse lead bars, 4 bridles, 13 heavy collars, 2 light collars, 2 pairs tip cart hook harnesses, 2 pairs tip cart ring harnesses, 2 tip cart saddles, 3 breastplates, 1 heavy breastplate, 4 overdraw hog checks, 2 pairs hames and traces, 1 pair 4-horse driving reins, 1 pair heavy traces, 2 pairs light traces, 2 tip cart shaft girths, 1 kicking strap, 4 pairs heavy breechings, 2 pairs light breechings, 2 saddle girths, 20 lbs. axle grease, 2 hay cutters, 1 box "Skelly" salve, 2 fire-extinguishers, 1 light shaft girth, 1 stable sheet for horse.

CHARLESTOWN.

YARD, CORNER TUFTS AND MEDFORD STREETS.

13,050 sq. ft. land, brick work shop, brick stable, two small wooden buildings, and small shed for the storage of oils, etc., 75 ft. 1-2 in. block tin pipe, 54 ft. 1 in. wrought-iron pipe, 1 stone trough, 2 2-in. augers, 6 axes, 3 ship augers, 4 baskets, 1 Clark's extension bit, 2 boring machines, 5 pairs 3-in. butts, 1 brace bit, 8 hack saw blades, 1 pair calipers, 2 tinsmith chisels, 2 2-in. chisels, 2 24-in. derricks, 2 30-in. derricks, 3 pairs door-handles, 2 pairs door-knobs, 1 set drills, 2 14-in. round rasps, 2 14-in. 1-2 do., 5 doz. 6-in. saw files, 2 14-in. square files, 1 forge, 2 plumber's furnaces, 5 lead furnaces, 2 set wedges, 12 pieces glass, 10-in. x 14-in., 6 do., 2 claw-hammers, 5 paving do., 7 sledge do., 6 stone do., 2 axe handles, 1 pick handle, 1 hatchet, 6 hoes, 2 chain hooks, 12 wooden horses, 2 hose nozzles, 12 bed screws, 6 jack screws, 6 lead kettles, 1 heating kettle, 4 Yale locks, 1 engineer's level, 5 stepladders, 5 small ladles, 3 sets marking tools, 6 lead moulds, 1 carpenter's mallet, 1 plumber's mallet, 1 bottle mercury, 1 set Morse drills, 5 oil trays and feeders, 2 oil tanks, 1 chemical mortar and bowl, 5 padlocks, 2 thawing pails, 1 water pail, 50 picks, 2 planes, 6 diamond points, 2 3-in. diaphragm pumps, 1 copper do., 4 force do., 6 pipe tongs, 1 lb. glazier's points, 1 6-in. pudding head, 1 8-in. do., 1 10-in. do., 1 12-in. do., 1 16-in. do., 4 lbs. rosin, 1 tinsmith's rule, 1 iron rake, 1 wooden rake, 13 rammers, 36 rammer handles, 3 ratchets, 25 lbs. rubber, 4 lbs. iron rivets, 2 lbs. copper do., 1 set row-locks, 4 hand saws, 2 shears, 3 sets stencils, 1 set brass do., 1 set chemist scales, 1 platform do., 2 lead setts, 1 lb. 1-2 in. tacks, 1 lb. 3-4 in. do. 1 lb. 1 1-4 in. copper do., 1 lb. 1-in. do., 3 lbs. 1-2 in. wire do., 1 trowel, 4 tunnels, 1 lb. trunk nails, 7 lbs. twine, 50 lbs. cotton waste, 20 1-gal. bottles, 65 lbs. copper wire, 3 lbs. sal ammoniac, 25 nets, 1 paint brush, 1 water trough do., 40 yds. duck cloth, 2 lbs. leather, 1-2 lb. plaster paris, 4 screw drivers, 3 hand screws, 2 soldering pots, 6 signs (No Passing), 1 square, 2 50-ft. tape lines, 12 taping crabs, 6 doz. roofing tins, 3 tool boxes, 13 torches, 20 trench rods, 1 tool-house, 2 vises, 9 washer cutters, 14 gals. kerosene oil, 2 bbls. sperm oil, 1 bbl. cylinder do., 6 jack screws, 1 open carriage, 1 buggy, 2 rubber boots for carriages, 1 pung, 2 sleighs, 1 express wagon, 5 horse brushes, 2 broom do., 8 street blankets, 7 stable do., 3 manure forks, 3 hay forks, 8 halters, 4 tons hay, 60 bu. oats, 1 team harness, 3 buggy do., 2 stable pails, 3 pitchforks, 4 woolen robes, 4 fur do., 8 surecings, 4 sponges, 1 double ice wagon, 1 body for ice wagon, 1 wringer, 5 currycombs, 2 chamois skins, 2 water tanks, 2 driving horses, and 1 work horse, 50 picks, 75 round point shovels, 2 square do., 2 snow shovels, 2 door knobs, 1 gross 2 1-2 in. blue screws, 3 gross 2 1-2 in.

brass do., 1 gross 2-in. do., 1 gross 1 1-2 in. steel screws, 3 gross 3-4 in. do., 3 gross 7-8 in. do., 3 pair 8-in. strap hinges, 3 lbs. 1-in. copper tacks, 1 lb. 1 1-2 in. trunk nails, 2 lbs. 1-2-in. wire brads, 3 reams sandpaper, 5 Stillson wrenches, 6 monkey do., 11 Post hydrants, 20 gate do., 3 Boston hydtt. do., 3 Lowry do., 2 2-in. fork do., 1 air cock do., 8 pairs rubber boots, 48 wheelbarrows, 1 set plumber's tools, 2 drilling machines, and 2 ratchets, 350 ft. 1 1-2 in. rope, 2 chain do., 250 ft. 2 1-2 in. do., 250 ft. 3 in. do., 300 ft. 4 in. do., 40 ft. 6 in. do., 1 length 2 1-2 hose, 5 lengths 2-in. hose, 3 chucks, 125 ft. 3-4 in. hose, 100 ft. 1-in. do., 300 ft. 2-in. do., 50 ft. 2 1-2 in. do., 2 goose-necks, 2 2-in. x 1 1-2 in. bushings, 1 2-in. x 1-in. bushing, 1 1-in. do., 9 1-in. by 3-4 in. do., 3 3-4 in. x 1-2 in. do., 12 1 1-2 x 1-2 in. meter test caps, 1 plain cock, 7 6-8 in. basin. do., 6 oil cocks, 2 gals. benzine, 30 ft. jointer stock, 2 gals. neat's-foot oil, 1 roll top desk, 2 flat do., 1 feather duster, 6 cuspidors, 3 office chairs, 1 clock, 1 coal hod, 1 water cooler, 8 pictures, 4 large stoves, 2 tool-house stoves, 3 brooms, 3 chairs.

EAST BOSTON.

RESERVOIR.

220,875 sq. ft. of land, bounded by Brooks, White, Putnam, and Eagle sts., stone basin used as a reservoir having a capacity of 6,000,000 gallons, 1 two-story wooden frame building used as a stable, carriage-shed and office, 1 two-story wooden frame building 40 x 80 ft., used as an ice house, 1 ice run and endless chain and gear for same, 2 gate wrenches, 4 Lowry wrenches, 4 common wrenches, 5 Post hydrant wrenches, 4 small service-pipe wrenches, 1 large service pipe wrench, 1 air cock wrench, 3 monkey wrenches, 24 round point shovels, 43 picks, 5 rammers, 4 crowbars, 3 square point shovels, 4 iron rakes, 2 stable blankets, 3 street blankets, 2 wagons, 1 pung, 1 chuck, 2 working horses, 1 brass pump, 1 force pump, 1 diaphragm pump, 3 hoisting screws, 11 wooden horses, 2 tons coal, 1 vise, 1 saw, 1 Stillson wrench, 10 gallons kerosene oil, 13 lanterns, 2 spirit levels, 1 kit plumber's tools, 24 ft. stove pipe, 2 sets harness, 2 striking hammers, 1 stone hammer, 3 driving hammers, 33 cutting chisels, 2 lead chisels, 2 stone chisels, 1 large furnace, 1 plumber's furnace, 2 Fairbanks scales, 2 desks, 1 clothes closet, 1 5-gallon copper boiler for hot water, 6 chairs, 3 pairs rubber boots, 1 Edison pressure gauge, 1 Jones pressure gauge, 1 clock, 1 stove, 1 drilling machine, 1 12-in. shears and fall, 1 kit of sets, 2,400 lbs. hay, 30 bushels oats, 3 corn brooms, 1 paving broom, 2 horse brushes, 1 curry-comb, 2 1-gallon oil cans, 100 ft. 7-32 in. block tin pipe.

PUMPING STATION.

118,000 sq. ft. of land in Condor st., opp. Brooks st., 1 1-story brick building used as a pumping station, 5 steam gauges, 3 water gauges, 40 ft. 3-8 in. brass pipe, 1 work bench and vise, 2 25 H. P. vertical tubular boilers, 1 feed water heater, 1 oil cabinet, 7 gallons engine oil, 1 iron wheelbarrow, 1 shovel, 2 Worthington compound duplex pumps, 1 simple duplex pump.

ROXBURY.

PARKER HILL RESERVOIR.

197,614 sq. ft. land between Parker Hill ave. and Fisher ave., stone basin having a capacity of 7,200,000 gallons, 1 brick gate house, 1 wooden frame dwelling, 4 water chamber screens, 17 water chamber logs, 3 oil cans, 4 hay rakes, 2 hay forks, 2 hay poles, 16 shovels, 12 picks, 1 stone hammer, 1 block and falls, 2 pairs iron dogs, 1 lawn mower, 20 picket slats, 2 box barrows, 50 ft. old hose, 1 air cock

wrench, 20 empty salt bags, 1 gauge clock, 5 pairs window blinds, 14 storm windows, 3 spades, 4 forks, 3 scythes complete, 2 whetstones, 4 scythe rifles, 1 hammer, 1 border knife, 1 scuffle knife, 3 garden rakes, 1 rammer, 1 maul, 3 crowbars, 1 grindstone, 1 hand roller, 2 wheelbarrows, 5 bags salt, 1 drill hammer, 1 peck grass seed, 1 monkey wrench, 1 rasp, 1 pair cutting pinchers, 1 Post hydrant wrench, 1 Lowry hydrant wrench, 1 Boston hydrant wrench, 1 waste rod, 3 water pails, 1 18-ft. ladder, 1 10-ft. ladder, 15 lanterns, 8 padlocks, 1 bit stock and 3 bits, 1 hand bell, 1 grass hook, 15 settees, 1 hand cart, 1 broom, 1 stove, 12 sign boards, 1 15-ft. ladder, 2 scoop nets, 1 ton coal, 4 gate wrenches.

STRIP OF LAND BETWEEN HEATH AND LAWN STREETS.

(Containing 5,707 sq. ft.)

STRIP OF LAND, FROM PARKER HILL AVANUE TO FISHER AVENUE.

(Containing 2,887 sq. ft.)

WEST ROXBURY.

DISTRICT YARD IN WILLIAMS STREET, NEAR WASHINGTON STREET.

Four working horses, 2 express wagons, 1 demorcrat wagon, 1 harness, 1 tip-cart, 1 harness, 2 sets heavy harness, 1 heavy pung, 1 light pung, 3 stable blankets, 3 surcingles, 3 street blankets, 4 halters, 16 water pails, 1 office desk, 2 lamps, 1 office table, 1 clock, 3 office chairs, 1 waste basket, 1 office stove, 1 coal hod, 3 tool houses, 1 stove, 3 furnaces, 3 lead pots, 1 large furnace, 1 lead pot, 45 picks, 4 lead ladles, 21 shovels, 30 lanterns, 3 striking hammers, 1 sledge hammer, 4 driving hammers, 1 plumber's hammer, 5 gate wrenches, 2 24-in. gate wrenches, 9 Lowry hydrant wrenches, 6 Boston hydrant wrenches, 5 service pipe wrenches, 4 water Post wrenches, 5 air cock wrenches, 2 Stillson wrenches, 3 monkey wrenches, 2 hydrant collar bolt wrenches, 1 Post hydrant squeezer, 3 Lowry hydrant squeezers, 2 chucks, 5 goosenecks, 1 spirit level, 2 hand saws, 4 bursting wedges, 1 hand axe, 1 hatchet, 2 pair rubber boots, 1 12-in. shears, block and falls, 2 6-in. do., 1 24-in. derrick blocks and falls, 2 copper pumps, 1 force-pump, 1 diaphragm pump, 15 ft. of 3-in. rubber suction hose, 350 ft. 2 1-2 in. fire hose, 50 ft. 3-4 in. garden hose, 1 street roller, 17 street horses, 1 Fairbanks scales, 1 5-8 in. drilling machine, 1 5-8 in. drill and tap, 1 1-in. drilling machine, 1 1-in. drill and tap, 1 3-4 in. drill and tap, 16 cutting chisels, 3 lead chisels, 2 cold chisels, 2 sets calking tools, 1 10-in. flat rasp, 1 plumber's knife, 2 soldering irons, 2 plumber's furnaces, 1 receiving book, 1 delivery book, 1 wagon jack, 1 small hoisting jack, 4 hoisting screws, plates, and chains, 2 5-8 in. stretching bolts, 1 3-4-in. do., 1 1-in. do., 1 1 3-4-in. do., 1 1 1-2-in. do., 1 2-in. do., 1 grind-stone, 2 wheelbarrows, 100 ft. wooden thawing box, 285 ft. 1-in. wrought iron pipe, 1 12-in. puddling head, bolts and straps, 1 8-in. do., 2 6-in. do., 3 12-in. wooden heads, 3 6-in. do., 1 4-in. do., 5 rammers, 6 crow-bars, 5 flag handles, 32 1-in. iron couplings, 1 3-4 in. angle valve, 7 Post hydrant wrenches, 1 set fire tools, 1 15 horse-power vertical boiler.

WEST ROXBURY PUMPING STATION, CORNER METROPOLITAN AVENUE AND WASHINGTON STREET.

(Leased by Metropolitan Water Board.)

One brick pumping station, 12,895. sq. ft. of land, 3 arm chairs, 1 axe, 2 vertical boilers with necessary connections, including steam damper and Wainwright heater; 1 pinch bar, 1 log book, 1 Howard clock, 2

cuspidors, 9 window curtains, 1 cabinet for oil, 1 desk, 3 door mats, 3 steam gauges, 2 pressure gauges, 2 sets of furnace grates, 1 hatchet, 2 sledge hammers, 1 claw hammer, 2 long handle hoes, 50 ft. of 3-4 in. hose, 1 common stepladder, 1 black walnut stepladder, 1 13-ft. ladder, 1 lawn mower, 1 quart measure, 1 pint measure, 1 20-gallon oil tank, 1 6-gallon oil can, 2 1-quart oil cans, 3 squirt cans, 1 long nosed oil can, 2 Blake pumps, with air pumps, air chambers and other necessary fittings; 1 oil pump, 1 fusible plug, 3 6-ft. pokers, 2 6-ft. iron rakes, 2 garden rakes, 1 hay rake, 1 radiator, 3 coal shovels, 1 square point shovel, 50 pounds of steel, in drills and chisels, 1 platform scale, 1 hand-saw, 1 splice bar, 2 slates, 2 tube cleaners, 1 tunnel, 2 steam traps, 1 4-in. vice, 1 service wrench, 1 gate wrench, 1 24-in. monkey wrench, 1 12-in. monkey wrench, 1 8-in. do., 1 24-in. Stillson wrench, 1 15-in. do., 1 10-in. do., 1 8-in. do., 1 6-in. do., 2 iron wheelbarrows, 2 mercury pots with columns attached, 2 iron pails, 1 wooden pail, 1 mason's trowel, 1 mason's hammer, gauge glass cutter, 1 wardrobe.

MT. BELLEVUE.

Stony Brook Reservation, Metropolitan Park System.

One stand pipe, capacity 122,000 gallons.

MONTEBELLO ROAD.

Twelve-inch Main Pipe Job in Charge of Michael Durand.

1 wood axe, 1 small axe, 3 grub axes, 6 crowbars, 6 pairs rubber boots, 1 6-in. chain, 1 12-in. do., 1 16-in. do., 1 chain rope, 18 cutting chisels, 5 lead chisels, 1 chuck, 4 flags, 4 staffs for flags, 1 furnace complete, 1 fall complete, 2 hand spikes, 200 feet of 2 1-2 in. hose, 2 paving hammers, 3 driving hammers, 4 striking hammers, 4 stone hammers, 2 extra hammer handles, 3 gasketing irons, 2 6-in. jointers, 1 8-in. do., 1 10-in. do., 1 12-in. do., 1 16-in. do., 2 ladles, 1 level, 24 lanterns, 1 lead pot, 1 marking line, 1 copper nozzle, 1 10-gallon oil can, 2 1-gallon oil cans, 6 wooden pails, 8 iron pails, 2 12-in. plugs, 1 Edson pump (complete), 1 force pump, 7 rammers, 3 screws for jointers, 5 sign boards, 1 spanner, 1 straight edge, 1 stove (complete), 1 set shears, 30 shovels, 1 post hydrant squeezer, 1 Lowry hydrant squeezer, 1 post hydrant wrench, 1 Lowry do., 1 common do., 2 gate do., 1 service wrench, 2 monkey wrenches, 5 frost wedges, 3 bursting wedges, 6 lifting wedges, 1 tool house, 1 trailer, 3 kits of pony sets, 2 kits of hand sets, 2 handsaws, 2 puddling heads, 1 50-foot tape line, 4 bull points, 1 wheelbarrow, 20 picks.

DORCHESTER.

DISTRICT YARD IN GIBSON STREET.

One story and a half wooden frame building used as a stable and office, 1 2-story wooden building 20 x 20, used as a shop, 2 shelters for wagons, stock, etc.
2 axes, 5 grub axes, 22 crowbars, 2 blocks and tackles, 2 corn brooms, 4 stable blankets, 2 street blankets, 1 stable brush, 55 lbs. old brass, 1 large steam boiler 40-horse power, 1 6-ft. heavy chain, 2 6-ft. 6-in. do., 1 7-ft. do., 1 8-ft. 6-in. do., 1 9-ft. 6-in. do., 1 12-ft. do., 1 12-ft. 6-in. do., 3 13-ft. do., 1 15-ft. 6-in. do., 2 16-ft. do., 2 hydrant chucks, 19 cutting chisels, 1 lead chisel, 2 cold chisels, 4 surcingles, 1 currycomb, 1 ton egg coal, 3 office chairs, 2 5-8 in. drilling machine, 1 1-in. drilling machine, 2 hydrant dogs, 2 6-in. derricks, 1 roll-top desk, 1 small desk, 1 boom derrick, 1 portable engine and pump, 3 plumber furnaces, 35 flags, 1 manure fork, 2 hay forks, 1 drinking fountain, 1 6-in. jointer, 1 8-in. do., 1 10-in. do., 1 12-in. do., 1 16-in. do., 1 20-in.

do., 1 24-in. do., 6 goosenecks, 40 lantern globes, 10 lbs. axle grease, 3 grabs, 11 pieces 2-in. hose, 100 ft. 2 1-2 in. hose, 2 pieces suction hose, 12 ft. each, 1 12-lb. hammer, 2 14-lb. do., 2 16-lb. do., 1 9-lb. striking do., 1 12-lb. do., 1 hand hammer, 3 halters, 766 lbs. hay, 1 large tool house, 2 small tool houses, 2 wood hammer handles, 2 express harnesses, 1 driving harness, 3 work horses, 10 21-ft. pipe hangers, 6 12-ft. do., 15 tons old iron, 100 5-8 in. leather packing, 1 large hot water kettle, 1 lead kettle, 1 lead pot, 1 stepladder, 1 long ladle, 1 long level, 1 short level, 40 lanterns, 2 stable lamps, 2 9-ft. ladders, 1 kit main pipe tools, 1 6-in. clamp, 1 8-in. do., 1 10-in. do., 1 12-in. do., 2 floor mops, 700 1-hour shut-off notices, 1,500 3-hour do., 1,100 7-hour do., 12 bushel oats, 30 gallons kerosene oil, 1 3-in. Edson pump, 2 force pumps, 67 picks, 9 galvanized iron pails, 1 copper pump, 1 brass pump, 1 pung, 1 iron rake, 12 rammers, 100 ft. 2 1-2 in. rope, 1 4-in. rubber for drilling machine, 1 6-in. do., 1 8-in. do., 1 10-in. do., 1 12-in. do., 1 fur robe, 1 lap robe, 1 roaster, 5 large wooden reels, 1 post hydrant squeezer, 1 Lowry hydrant do., 1 Lowry bolt do., 1 6-in. collar bolt do., 1 12-in. collar bolt do., 12 screw flanges, 2 8-ft. 6-in. screws for hoisting, 1 5-ft. do., 1 jack screw, 1 handsaw, 2 stoves, 11 bags salt, three cakes soap, 24 round-point shovels, 2 scoop shovels, 1 gravel screen, 1 kit plumber's tools, 12 stone drinking troughs, 1 pair 2-in. tongs, 7 post hydrant wrenches, 9 common hydrant do., 13 Lowry do., 4 sidewalk do., 6 gate do., 3 service do., 3 heavy service do., 5 monkey do., 1 air-cock do., 5 hydrant-rod do., 2 18-in. Stillson do., 2 2-in. fork do., 8 5-8 in. fork do., 4 old style Post hydrants do., 4 new style do., 2 wooden clamps for water posts, 2 express wagons, 1 democrat wagon, 4 bursting wedges, 3 iron post wedges, 8 1-gallon cans, 3 dozen lamp-wicks, 1 hay wagon (without forward wheels), 50 ft. 7-32 in. block-tin pipe, 35 ft. 1-4 in. block-tin do., 75 ft. 1-2 in. do.

WASHINGTON STREET, NEAR BOWDOIN STREET, DORCHESTER.

Thirty-inch Main Pipe Job, under Foremen French and Coyle.

1 handsaw, 1 roaster, 1 pair of shears, 1 level, 1 straight-edge, 1 diaphragm pump, 1 handle for same, 1 hose for same, 1 strainer for same, 1 lead furnace, 1 lead pot, 1 lead-pot hanger, 4 hand spikes, 1-2 dozen grub axes, 1 tool house, 1 tool-house stove, 1 tool chest, 2 padlocks, 1 50-ft. tape line, 1 marking line, 2 lead ladles, 1 large gate wrench, 3 small gate wrenches, 1 Boston hydrant wrench, 1 Boston Lowry wrench, 2 Post hydrant wrenches, 2 monkey wrenches, 1 post hydrant squeezer, 1 Lowry hydrant squeezer, 3 service-pipe wrenches, 4 wooden horses, 300 ft. 2 1-2 in. hose, 6 rammers, 1 10-gallon kerosene oil can, 1 broom, 11 picks, 13 shovels, 1 chain rope, 1 8-in. fall and blocks, 1 strap, 6 striking hammers, 2 stone hammers, 4 hand hammers, 2 crowbars, 1 chuck, 1 4-in. clamp, 1 6-in. do., 1 8-in. do., 1 18-in. do., 1 16-in. jointer, 1 12-in. do., 2 10-in. do., 1 8-in. do., 1 6-in. do., 1 kit of pony sets, 4 kits hand sets, 32 cutting chisels, 1 16-in. chain, 1 12-in. do., 1 6-in. do., 1 gooseneck, 6 lifting wedges, 1 axe, 1 axe handle, 3 sledge-hammer handles, 3 pair rubber boots, 1 30-in. derrick and fall, 1 tripod, 1 fall, 4 fall blocks, 1 large lead kettle and pot, 1 small do., 1 hydrant chuck, 2 30-in. clamp screws, 8 striking hammers, 2 stone hammers, 1 bracing hammer, 70 picks, 70 shovels, 2 20-in. jointers, 4 8-in. do., 4 12-in. do., 3 6-in. do., 2 24-in. do., 4 10-in. do., 4 30-in. do., 5 16-in. do., 30 ft. 1 1-2 in. rope, 1 chain rope, 1 30-in. strap, 2 12-in. wooden plugs, 1 10-in. do., 3 8-in. do., 1 6-in. do., 4 grub axes, 3 lead ladles, 2 mortar hoes, 3 garden rakes, 7 crowbars, 7 hand spikes, 1 post-hydrant nut wrench, 3 air-cock wrenches, 2 service wrenches, 1 Lowry nut wrench, 1 gate wrench, 2 stop-cock wrenches, 1 common hydrant wrench, 1 Lowry hydrant wrench, 2 wheelbarrows, 8 hand hammers, 3 6-in. clamp screws, 3 sets calking tools, 3 iron pails, 1 square shovel, 2 funnels, 3 10-gallon oil cans, 2 1-gallon oil cans, 2 lead cutters, 1 sidewalk nut wrench, 1

WATER DEPARTMENT.

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trowel, 3 bursting wedges, 7 rammers, 7 long-handle rammers, 2 lantern boxes, 2 drilling-tool boxes, 50 cutting chisels, 2 axes, 1 hatchet, 2 handsaws, 1 cross-cut saw, 2 monkey wrenches, 1 gooseneck, 1 2 1-2 in. hose nozzle, 2 spirit levels, 2 post-hydrant wrenches, 1 claw hammer, 2 brooms, 1 force pump, 5 paving hammers, 3 stone chains, 2 12-in. chains, 1 16-in. do. 1 20-in. do. 1 24-in. do., 80 lanterns, 250 ft. 2 1-2 in. hose, 1 diaphragm pump, 3 pairs rubber boots, 3 dozen lantern globes, 3,000 pounds egg coal, 10 gallons oil, 1 3-in. valve, 1 portable steam boiler (complete), 270 feet steam pipe.

WALES PLACE.

Six-inch Main Pipe Job, Foreman McClure.

6 pieces fire hose (300 ft.), 1 2 1-2 in. nozzle, 3 kits lead sets, 2 kits pony sets, 4 lead chisels, 24 cutting chisels, 6 bursting wedges, 1 Lowry hydrant chuck, 1 Boston hydrant wrench, 1 Lowry do., 1 Post hydrant wrench, 2 stop cock wrenches, 1 monkey wrench, 5 stone hammers, 5 striking hammers, 5 hand hammers (driving), 10 bars, 1 lead kettle, 1 lead furnace, 4 sheet-iron roasters, 3 lead ladles, 10 rammers, 1 diaphragm pump, 2 10-gallon oil cans, 2 1-gallon oil cans, 10 gallons kerosene oil, 1 canal barrow, 5 pairs rubber boots, 36 lamps, 36 lamp wicks, 1 lamp box, 1 tool box on wheels, 1 tool house, 1 stove, 6 feet of 4-in. stove pipe, 1 corn broom, 1 handsaw, 1 hand hatchet, 1 wood axe, 1 set of shears for main pipe, 1 fall for same, 1 12-in. chain for same, 2 square-point shovels, 30 round-point shovels, 30 picks, 1 rope chain, 1 gooseneck, 1 spirit level, 2 straight edges, 1 hoe, 1 rake, 2 manure forks, 3 grub axes, 6 iron pails, 3 lifting wedges, 6 gasket irons, 1 Lowry hydrant squeezer, 1 Post hydrant squeezer, 1 service pipe wrench, 1 Church cock wrench, 1 16-in. jointer, 1 1-2 in. do., 1 10-in. do., 1 8-in. do., 1 6-in. do.

BRIGHTON.

DISTRICT YARD, IN ROCKLAND STREET.

One block and tackle, 12 cutting chisels, 3 cold chisels, 2 driving hammers, 3 gasket irons, 1 grindstone, 3 sets of calking tools, 3 1-gal. oil cans, 1 5-gal. oil can, 1 2-in. die, stock and bit, 1 plumber's kit, 1 monkey wrench, 1 wagon shade, 4 skids, 2 grub hoes, 1 axe, 5 crowbars, 4 B. W. W. flags, 1 furnace, 1 ladle, 1 kettle, 2 wagon wrenches, 1 6-in. jointer, 1 8-in. do., 1 12-in. do., 4 bursting wedges, 1 saw, 1 force pump, 1 wagon jack, 1 hatchet, 1 24-in. Stillson wrench, 10 lbs. of solder, 2 lbs. axle grease, 1 mane brush, 1 currycomb, 1 horse brush, 1 bale of straw, 1 50-ft. marking line, 3 flush rods, 2 Boston wrenches, 3 Post hydrant wrenches, 1 set of marking tools, 5 gallons of kerosene oil, 1 30-lb. horse weight, 4 pieces 2 1-2 in. hose, 3 ft. long, for water posts, 1 Lowry squeezer, 1 Post hydrant squeezer, 2 large service wrenches, 3 small do., 1 air-cock wrench, 1 spanner, 2 express wagons, 2 express harnesses, 1 buggy, 1 driving horse and 1 work horse, 1 pung, 4 stop cock wrenches, 1 5-8 in. drilling machine, 2 new stoves, 1 old stove, 1 Lowry chuck, 1 Boston hydrant gooseneck, 2 stable blankets, 3 street blankets, 1 office broom, 2 pairs old rubber boots, 4 1-2 bales hay, 4 bushels of oats, 4 water pails, 50 ft. 3-4 in. hose, 1 set of light harness, 12 ft. 3-in. hose and strainer, 100 ft. 2 1-2 in. hose, 1 copper pump, 16 picks, 12 round-point shovels, 1 paving hammer, 3 rammers, 4 square-point shovels, 1 scoop shovel, 1 hoe, 1 rake, 2 street brooms, 1 old ladle, 2 striking hammers, 2 sledge do., 1 desk, 1 chair, 2 frost wedges, 1 spirit level, 1 vise, 2 Lowry wrenches, 4 drinking dippers, 12 new lanterns, 6 old lanterns, 2 plumber's furnaces, 1 3-4 tons of coal, 1 10-ft. ladder, 2 12-in. wooden plugs, 2 10-in. do., 2 8-in. do., 2 6-in. do., 2 derricks, 5 B. W. W. sign-boards, 1 fountain brush, 1 box-pump and handle, 5 1-2 bags salt, 1-2 barrel charcoal.

COMMONWEALTH AVENUE.

Twelve-inch Main Pipe Job in Charge of M. McCarthy.

One large tool-house, 1 small tool-house, 1 tool-house stove, 2 large axes, 2 small axes, 3 grub axes, 7 crowbars, 6 pairs rubber boots, 1 broom, 1 large clamp, 1 small clamp, 1 1-gal. oil can, 1 5-gal. oil can, 1 6-in. chain, 1 16-in. chain, 1 chuck, 1 chain-rope, 30 cutting chisels, 6 lead chisels, 1 fall, 1 12-in. shears, 6 B. W. D. flags, 6 staffs, 1 iron maul, 2 paving hammers, 3 stone hammers, 3 sledge do., 300 ft. 2 1-2 in. hose, 1 coupling, 1 nozzle, 1 spanner, 1 pump, 1 hose or suction, 1 jack-screw, 1 lead kettle, 2 ladles, 24 lanterns, 1 lead pot, 1 level, 4 skids, 1 12-in. sling, 1 6-in. jointer, 1 8-in. do., 1 12-in. do., 1 16-in. do., 3 gasket irons, 2 water pails, 40 picks, 3 diamond points, 1 12-in. puddling head, 1 12-in. wooden plug, 100 ft. marking line, 12 pony sets, 4 kits of hand sets, 1 straight-edge, 1 cross-cut saw, 1 hand-saw, 30 shovels, 4 handspikes, 3 bull points, 8 lifting wedges, 1 50-foot tape-line, 1 trowel, 1 wheelbarrow, 1 monkey wrench, 1 Post hydrant wrench, 1 large gate wrench, 1 small gate wrench, 1 service wrench, 1 Boston hydrant wrench, 1 Lowry hydrant wrench, 1 air-cock wrench, 1 Post hydrant squeezer, 1 Lowry squeezer.

BROOKLINE.

BROOKLINE RESERVOIR.

1,447,576 sq. ft. of land, bounded by Boylston, Dudley, Walnut, and Warren sts., stone basin, with capacity of 115,000,000 gallons; 1 wooden 2-story frame building, 134 x 40, used as an ice-house; 1 story-and-half wooden stable, 20 x 29; 1 wooden wagon-shed, 17 x 20; 1 wooden engine shelter, 12 x 12; 1 wooden shanty, used as a shelter for workmen; 1 large stone gate-house, 1 small stone house over the inlet to reservoir, 1 stone crusher and fixtures, 45 settees, 7 long handle shovels, 3 Post hole shovels, 3 wood rollers, 1 boat, 2 oars, 4 long handle rammers, 2 short handle rammers, 2 cart wrenches, 1 monkey wrench, 1 coil wire rope, 1 small cylinder stove, 1 large stove, 1 jack-screw, 1 gallon neat's-foot oil, 9 shovels, 1 paving hammer, 6 padlocks, 1 hand saw, 1 cross-cut saw, 2 square shovels, 14 bushel baskets, 1 striking hammer, 1 bundle shingles, 14 hay forks, 7 manure forks, 4 hoes, 4 long steel bars, 3 hay rakes, 4 crowbars, 2 heavy hammers, 10 grub hoes, 2 iron rakes, 4 spades, 9 snow shovels, 4 scoop shovels, 1 grindstone, 16-ft. shut-off wrench, 60 ft. of 2 1-4 in. rope, 1-gallon oil can and tunnel, 2 dippers, 1 3-burner oil stove, 16 picks with handles, 7 picks without handles, 1 bushel basket, 3 6-light windows, 1 2-light windows, 15 horse-power engine and boiler, 1 set of fire tools for engine, 1 leather belt for engine, 1 old rubber belt, endless chain and gear for ice-house, 1 run for ice, 9 ice saws, 15 ice hooks, 2 ice shavers, 8 ice tongs, 5 ice axes, 12 ice chisels, 1 ice pinch bar, 1 ice grapple, 1 ice marker, 1 ice groover, 1 ice wagon, 1 ice plough, 1 ice scraper, 1 ice planer, 1 hand plough, 5 calking bars, 1 ice auger, one 1-horse snow scoop, 1 scale and weights, 4 wood ice rammers, 4 wheelbarrows, 5 mortar beds, 1 ice adze, 2 work horses, 1 set double harness, 2 stable blankets, 1 watering cart, 1 double tip cart, 1 curry-comb, 2 brushes, 1 stable hook, 1 cane broom, 1 corn broom, 5 lanterns, 6 scythe blades, 1 barrel shorts, 600 lbs. hay, 3 halters, 50 lbs. straw, 6 gallons machine oil, 2 gallons cylinder oil, 1 long handle axe, 4 small iron drills, 1 1-2 tons of coal, 3 iron wedges, 1 small bar, 1 writing desk, 2 keys, 1 book, 1 pen rack, 1 pitcher, 1 tumbler, 1 cuspidor, 4 lanterns, 1 stove, 31 ft. of stove pipe, 1 coalhod, 1 fire shovel, 1 poker, 1 stove brush, 1 dust brush, 1 dust pan, 1 feather duster, 1 corn broom, 2 scrubbing brushes, 4 settees, 1 chair, 1 floor mat, 1 water gauge, 11 gate wrenches, 1 air-cock wrench, 4 gate wheels, 70 stop planks, 8

water screens, 2 notices forbidding trespassing, 2 thermometers, 4 iron rods, 2 screen doors, 6 window screens, 4 gas-fixtures, 1 scythe, 2 shovels, 1 pick, 1 hoe, 1 sickle, 1 scuffler, 1 spade, 4 water pails, 1 sponge, 1 sprinkler, 1 hatchet, 1 waste basket, 11 drills, 6 chisels, 2 hammers, 3 ladders, 1 crowbar, 4 padlocks, 1 key, 1 scoop net, 4 oil cans, 1 1-2 tons of coal, 1 bushel basket, 3 bushels salt, 1 monkey wrench.

FISHER HILL RESERVOIR.

459,670 sq. ft. of land fronting on Fisher ave., stone-basin with capacity of 15,000,000 gallons, 1 brick gate-house, 1 wooden weir building, 1 writing desk, 1 book, 1 pen rack, 1 lamp, 6 lanterns, 1 stove, 8 ft. of stove pipe, 2 pokers, 1 coal-hod, 3 water gauges, 1 ice hook, 1 scoop net, 3 notices forbidding trespassing, 23 battery bottles, 1 sponge, 1 clock, 1 pick, 1 thermometer, 1 gate wrench, 2 air-cock wrenches, 2 coal bins, 1 1-2 tons of coal, 1 dust pan, 1 dust brush, 1 duster, 1 broom, 1 brush for washing windows, 2 shovels, 81 stop planks, 2 iron rods, 3 chairs, 2 water pails, 1 floor mat, 3 oil cans, 6 padlocks, 4 settees, 1 bushel basket, 3 bushels of salt, 3 good ladders.

PIPE ROUTE, FROM BEACON STREET TO BOYLSTON.

(Area of property, 232,880 sq. ft.)

COCHITUATE AQUEDUCT, FROM BROOKLINE RESERVOIR TO CHESTNUT HILL PUMPING STATION.

(4,800 sq. ft.)

CHELSEA.

Lot of land in Marginal st., in which are laid the mains to East Boston; area, 24,900 sq. ft.

WINTHROP.

Strip of land at Point Shirley, containing 7,725 sq. ft.

MOON ISLAND.

25 ft. 1 1-2 in. cotton hose with strainers, fire pot, lead kettle, ladle, 1 3-in. galvanized-iron pump, 1 stove, 1 gate wrench, 1 service wrench, 1 crowbar, 1 steel chisel, 6 shovels, 6 picks, 2 long handle shovels, 1 galvanized-iron pail, 1 set calking tools, 1 axe, 1 pair tongs, 1 12-in. clamp and jointer, 2 lanterns, 2 pairs rubber boots, 1 hammer, 1 1-gallon oil can, 50 ft. of thawing tube.

LONG ISLAND.

One 1-gallon oil can, 1 fire pot, 1 kettle, 1 ladle, 3 long handle rammers, 1 short handle rammer, 1 set calking tools, 1 pair rubber boots, 1 Edson pump, 1 suction hose, 1 set shears, blocks and falls, 3 steel bars, 6 ft. long; 14 picks, 18 shovels, 5 long handle shovels, 1 lantern, 1 stove, 1 14-ft. boat, oars and rowlocks, 1 gate wrench, 1 service wrench.

DEER ISLAND.

One 1 1-2 in. ship pump on platform, 100 ft. 1 1-2 in. rubber hose.

GEORGE'S ISLAND (FORT WARREN).

One fire pot, 1 lead kettle, 1 ladle.

¹ BOSTON WATER BOARD.

ORGANIZED JULY 31, 1876.

TIMOTHY T. SAWYER, from July 31, 1876, to May 5, 1879; and from May 1, 1882, to May 4, 1883.
 LEONARD R. CUTTER, from July 31, 1876, to May 4, 1883.²
 ALBERT STANWOOD, from July 31, 1876, to May 7, 1883.²
 FRANCIS THOMPSON, from May 5, 1879, to May 1, 1882.²
 WILLIAM A. SIMMONS, from May 7, 1883, to August 18, 1885.
 GEORGE M. HOBBS, from May 4, 1883, to May 4, 1885.
 JOHN G. BLAKE, from May 4, 1883, to August 18, 1885.
 WILLIAM B. SMART, from May 4, 1885, to March 18, 1889.
 HORACE T. ROCKWELL, from August 25, 1885, to April 25, 1888.
 THOMAS F. DOHERTY, from August 26, 1885, to May 5, 1890; and from May 4, 1891, to July 1, 1895.
 ROBERT GRANT, from April 25, 1888, to July 18, 1893.
 PHILIP J. DOHERTY, from March 18, 1889, to May 4, 1891.
 JOHN W. LEIGHTON, from May 5, 1890, to July 1, 1895.²
 WILLIAM S. McNARY, from August 15, 1893, to November 5, 1894.
 CHARLES W. SMITH, from January 23, 1895, to July 1, 1895.

¹ WATER COMMISSIONERS.

CHARLES W. SMITH, from July 1, 1895, to January 20, 1896.³
 JEREMIAH J. MCCARTHY (Acting), from January 20 to February 1, 1896.
 JOHN R. MURPHY, from February 1, 1896, to October 17, 1899.³
 BENJAMIN W. WELLS (Acting), from October 17, 1899, to December 28, 1899.
 AUGUSTUS P. MARTIN, from December 28, 1899, to present time.

Assistant Water Commissioners.

JEREMIAH J. MCCARTHY, from July 1, 1895, to January 20, 1896.
 EDWARD C. ELLIS, from February 17, 1896, to present time.

Chief Clerk and Secretary.

WALTER E. SWAN.

General Superintendent Income Division.

JOS. H. CALDWELL.

General Superintendent Distribution Division.

HUGH McNULTY, to December 28, 1899.
 WILLIAM J. WELCH, from December 28, 1899.

City Engineer and Engineer of the Department.

WILLIAM JACKSON.

¹ Under Chap. 449 of the Acts of 1895, the Boston Water Board was abolished, and the Water-Supply and Water-Income Departments consolidated and placed under the charge of one Water Commissioner.

² Deceased.

³ Resigned.

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